

# Notice of Staking Form

43-041-36897

## NOTICE OF STAKING

(Not to be used in place of  
Application for Permit to Drill Form 3160-3)

6. Lease Number

UTU - 73903

1. Oil Well ☐

Gas Well ☒

Other ☐

Specify

7. If Indian, Alottee or  
Tribe Name

NA

2. Name of Operator

McElvain Oil and Gas Properties, Inc.

8. Unit Agreement Name

NA

3. Name of Specific Contact Person

Reed Fischer

9. Farm or Lease Name

Archy Bench Federal

4. Address & Phone No. of Operator or Agent

1050 - 17th Street, Ste. 1800 Denver, CO 80265 (303) 893-0931

10. Well No.

12 - 2

5. Surface Location of Well

Attach: a) Sketch showing road entry onto pad, pad  
dimensions, and reserve pit.

b) Topographical or other acceptable map  
showing location, access road, and lease boundaries.

11. Field or Wildcat Name

Exploratory

12. Sec., T., R., M., or Blk  
and Survey or Area

Sec. 12, T11S-R22E, SLB&M

15. Formation Objective(s)

Mancos, Mesaverde, Wasatch

16. Estimated Well  
Depth

8650

13. County, Parish  
or Borough

Uintah County

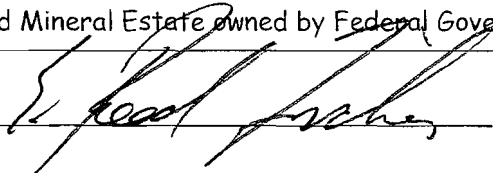
14. State

Utah

17. Additional Information (as appropriate; shall include surface owner's name.)

Surface and Mineral Estate owned by Federal Government and administered by the BLM.

18. Signed



Title Operations Engineer

Date 3/16/05

NOTE: Upon receipt of the Notice, the Bureau of Land Management (BLM) will schedule the date of the onsite predrill inspection and notify you accordingly. The location must be staked and access road flagged prior to the onsite.

Operators must consider the following prior to the onsite:

a) H2S Potential

b) Cultural Resources (Archeology)

c) Federal Right of Way or Special Use Permit

RECEIVED

MAR 18 2005

IMPORTANT: SEE REVERSE SIDE FOR INSTRUCTIONS

DIV. OF OIL, GAS & MINING

McELVAIN OIL & GAS PROP., INC.  
ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 2.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 59.4 MILES.

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**McELVAIN OIL & GAS PROP., INC.**  
**ARCHY BENCH FEDERAL #12-2**  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 12, T11S, R22E, S.L.B.&M.

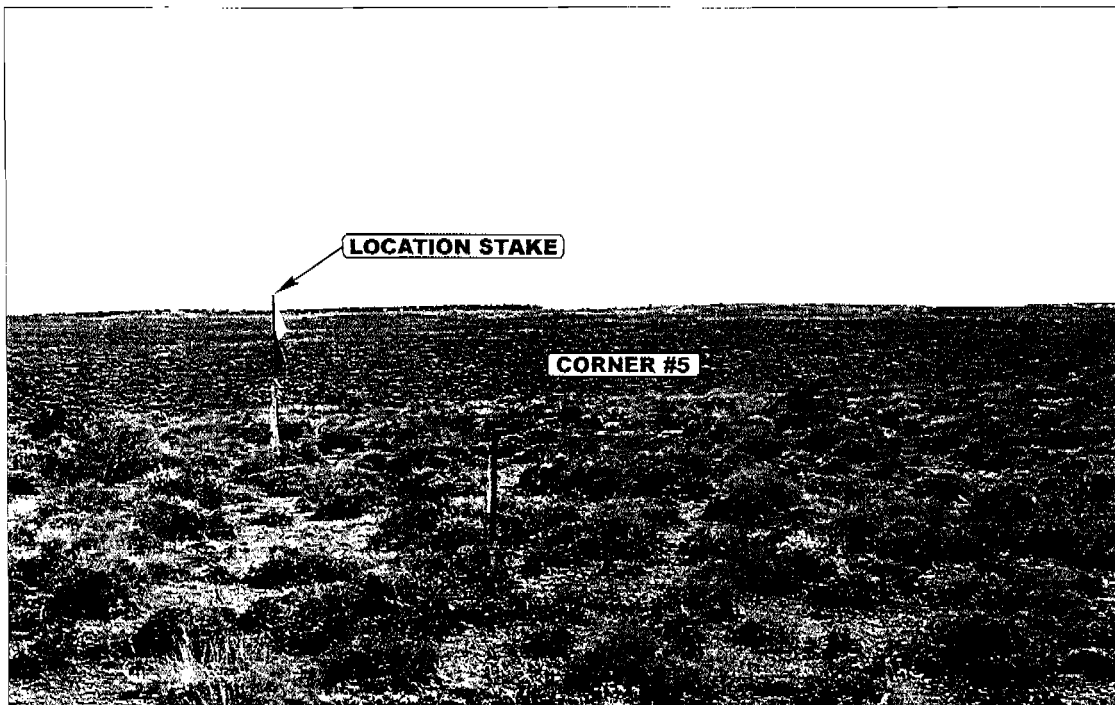


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

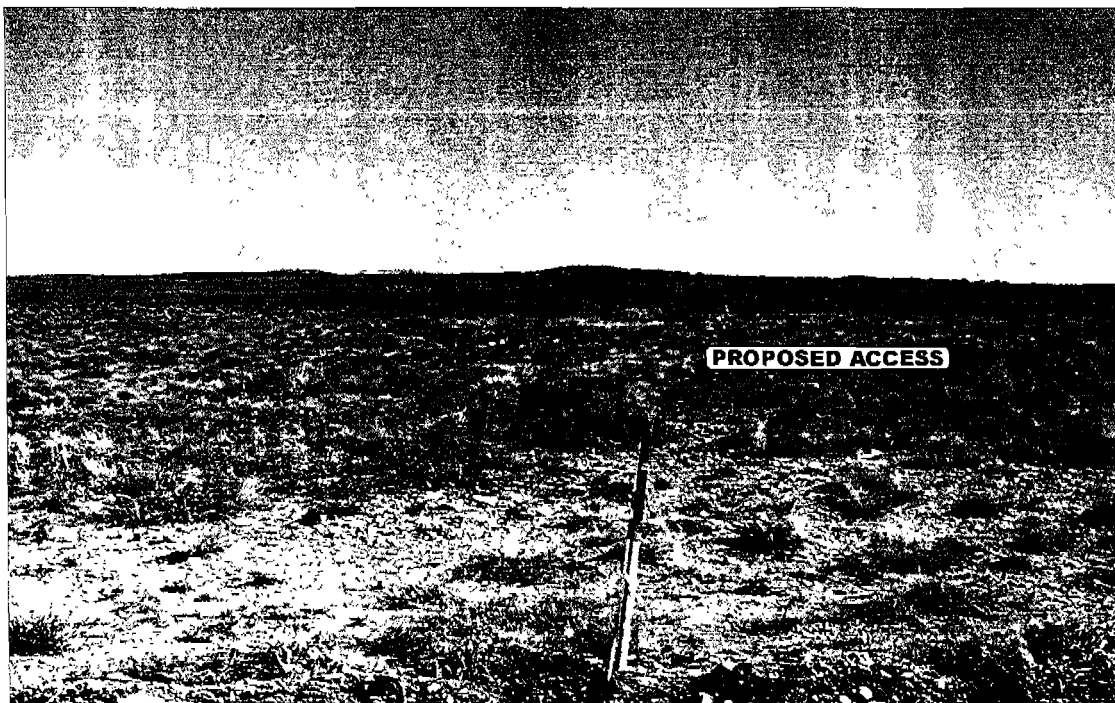


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

03 01 05  
MONTH DAY YEAR

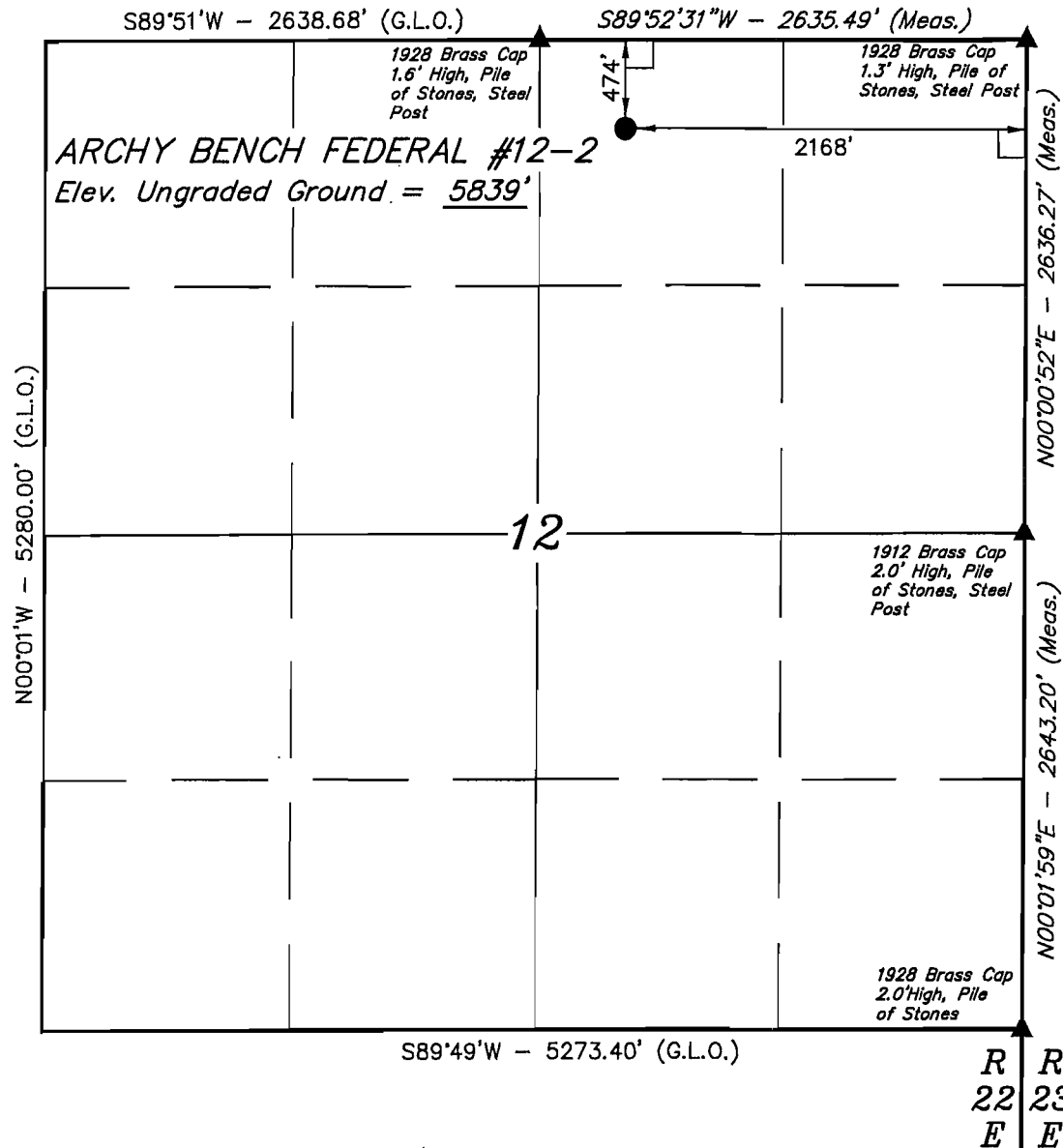
PHOTO

TAKEN BY: S.H.

DRAWN BY: L.K.

REVISED: 00-00-00

T11S, R22E, S.L.B.&M.



**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
 LATITUDE = 39°52'51.76" (39.881044)  
 LONGITUDE = 109°24'06.63" (109.401842)  
 (AUTONOMOUS NAD 27)  
 LATITUDE = 39°52'51.88" (39.881078)  
 LONGITUDE = 109°24'04.18" (109.401161)

**MCELVAIN OIL & GAS PROP., INC.**

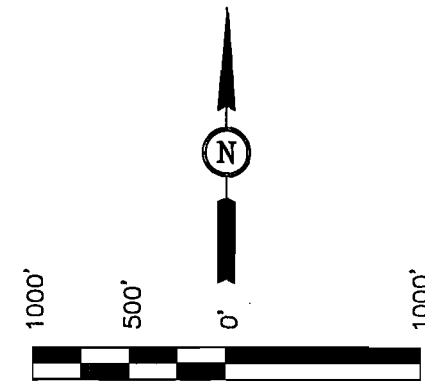
Well location, ARCHY BENCH FEDERAL #12-2, located as shown in the NW 1/4 NE 1/4 of Section 12, T11S, R22E, S.L.B.&M., Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 12, T11S, R22E, S.L.B.&M. TAKEN FROM THE BUCK CAMP CANYON, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5973 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



**SCALE  
CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert H. Gray*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

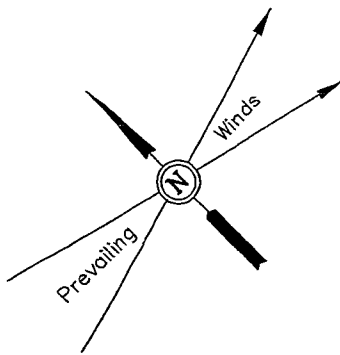
SCALE 1" = 1000'		DATE SURVEYED: 03-03-05	DATE DRAWN: 03-06-05
PARTY S.H. L.M. D.R.B.	REFERENCES G.L.O. PLAT		
WEATHER COLD	FILE MCELVAIN OIL & GAS PROP., INC.		

# MELVAIN OIL & GAS PROP., INC.

## LOCATION LAYOUT FOR

ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.

474' FNL 2168' FEL

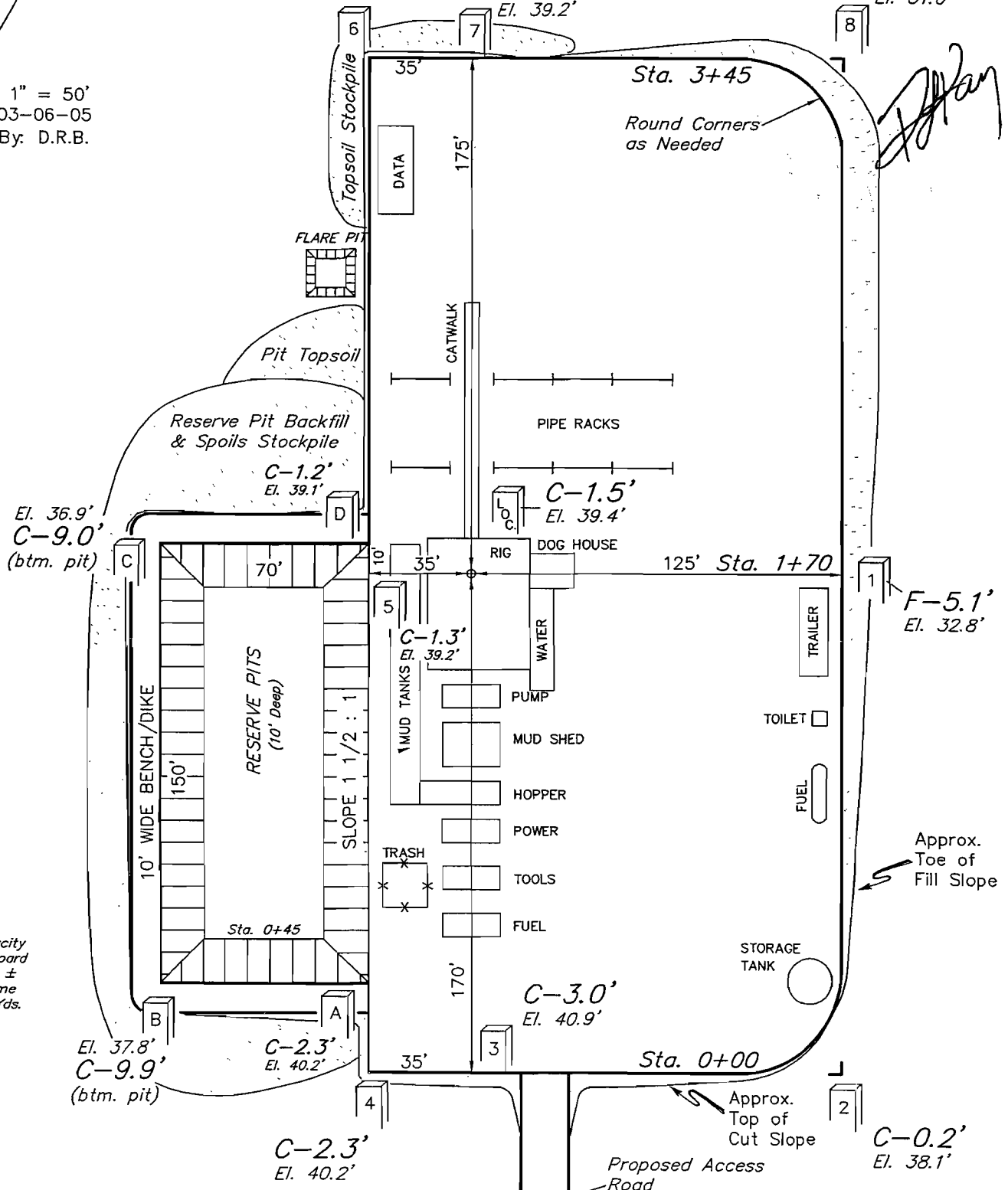


SCALE: 1" = 50'  
DATE: 03-06-05  
Drawn By: D.R.B.

C-1.4'  
El. 39.3'

C-1.3'  
El. 39.2'

F-6.9'  
El. 31.0'



Total Pit Capacity  
W/2' of Freeboard  
= 9,850 Bbls. ±  
Total Pit Volume  
= 2,780 Cu. Yds.

Elev. Ungraded Ground at Location Stake = 5839.4'  
Elev. Graded Ground at Location Stake = 5837.9'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

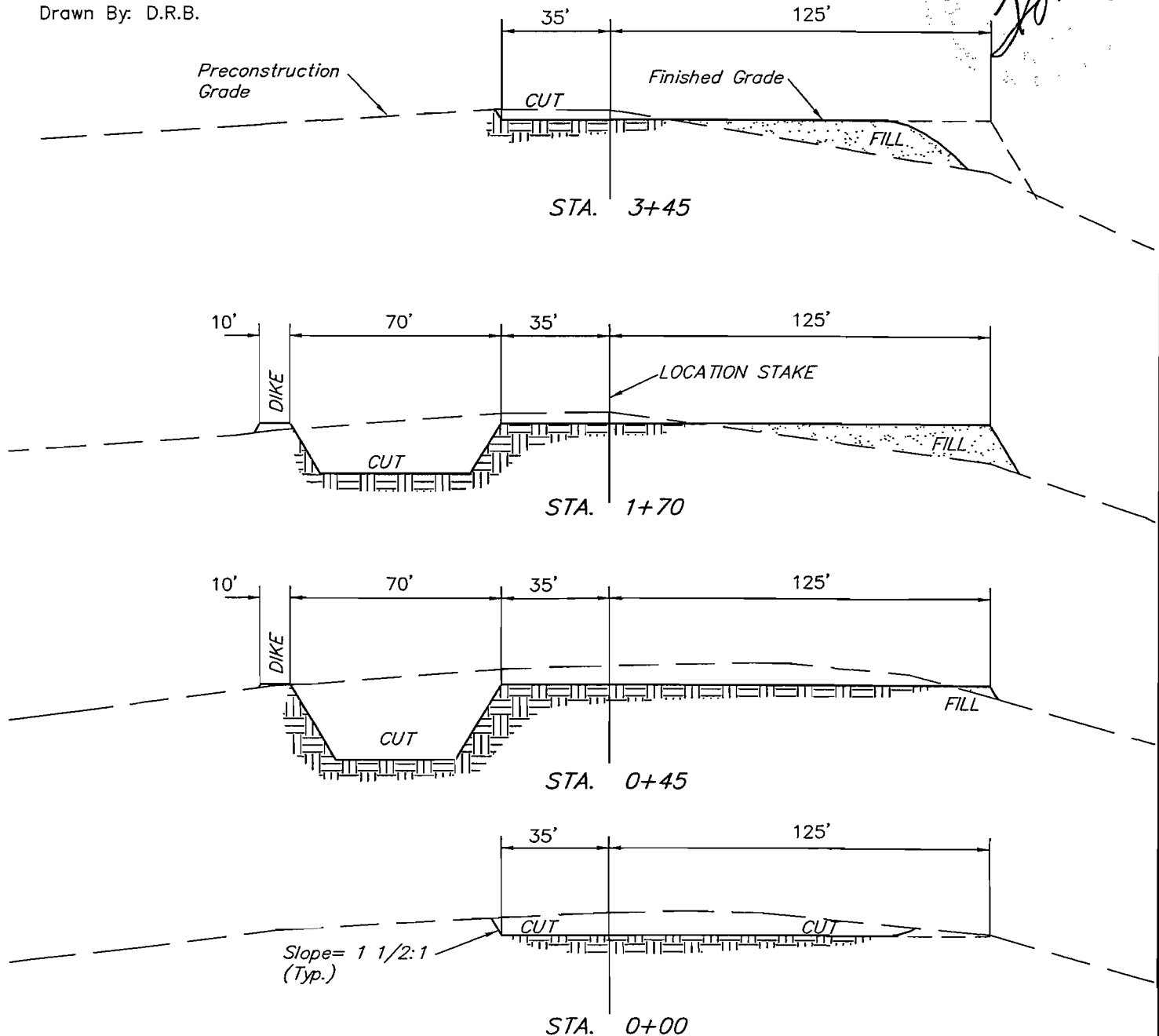
# M. ELVAIN OIL & GAS PROP., INC.

## TYPICAL CROSS SECTIONS FOR

ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.  
474' FNL 2168' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 03-06-05  
Drawn By: D.R.B.



### APPROXIMATE YARDAGES

#### CUT

(6") Topsoil Stripping = 1,390 Cu. Yds.

Remaining Location = 4,270 Cu. Yds.

TOTAL CUT = 5,660 CU.YDS.

FILL = 2,880 CU.YDS.

#### \* NOTE:

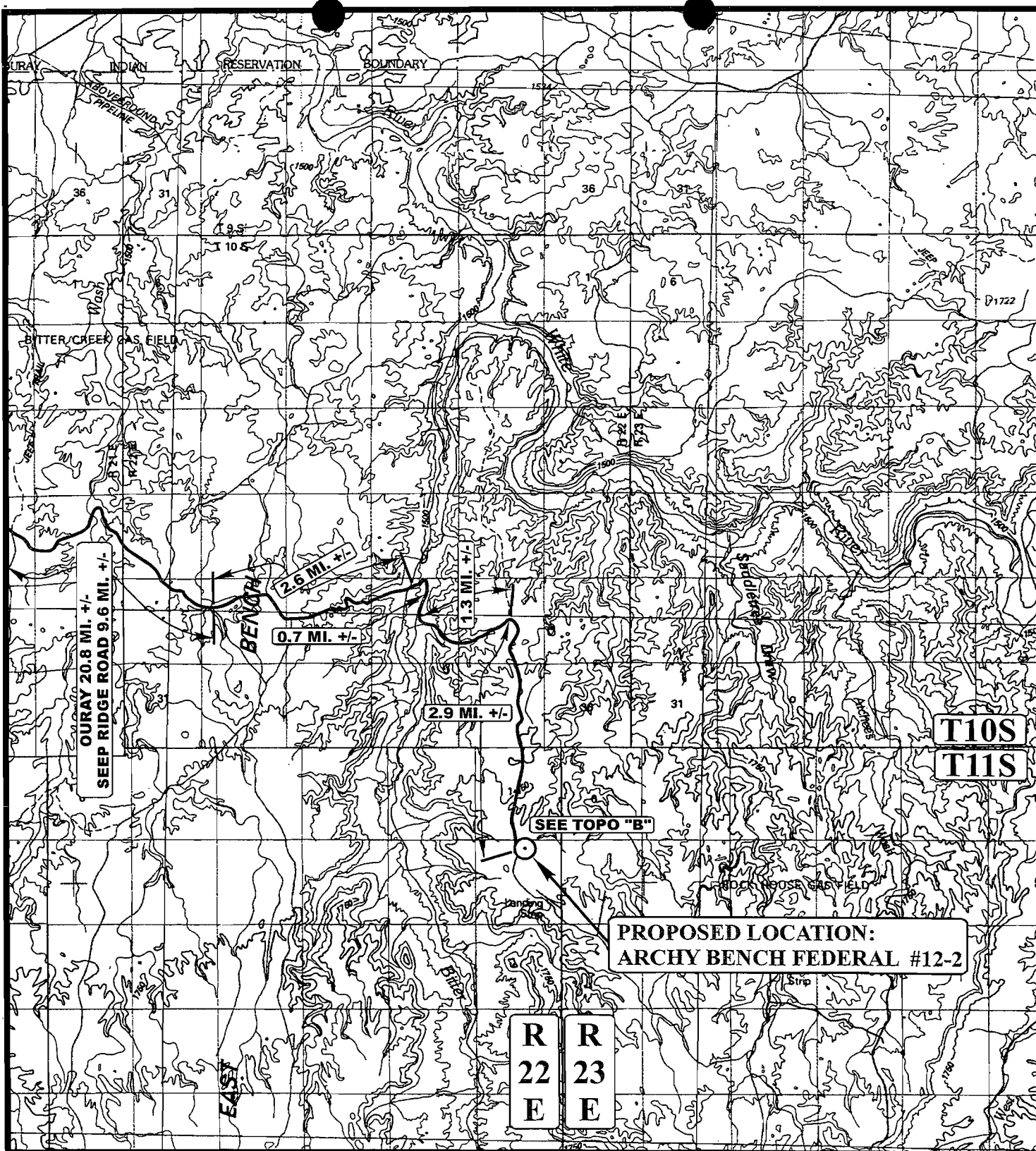
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

Excess Material = 2,780 Cu. Yds.

Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 2,780 Cu. Yds.

EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**LEGEND:**

○ PROPOSED LOCATION



**McELVAIN OIL & GAS PROP., INC.**

**ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.  
474' FNL 2168' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

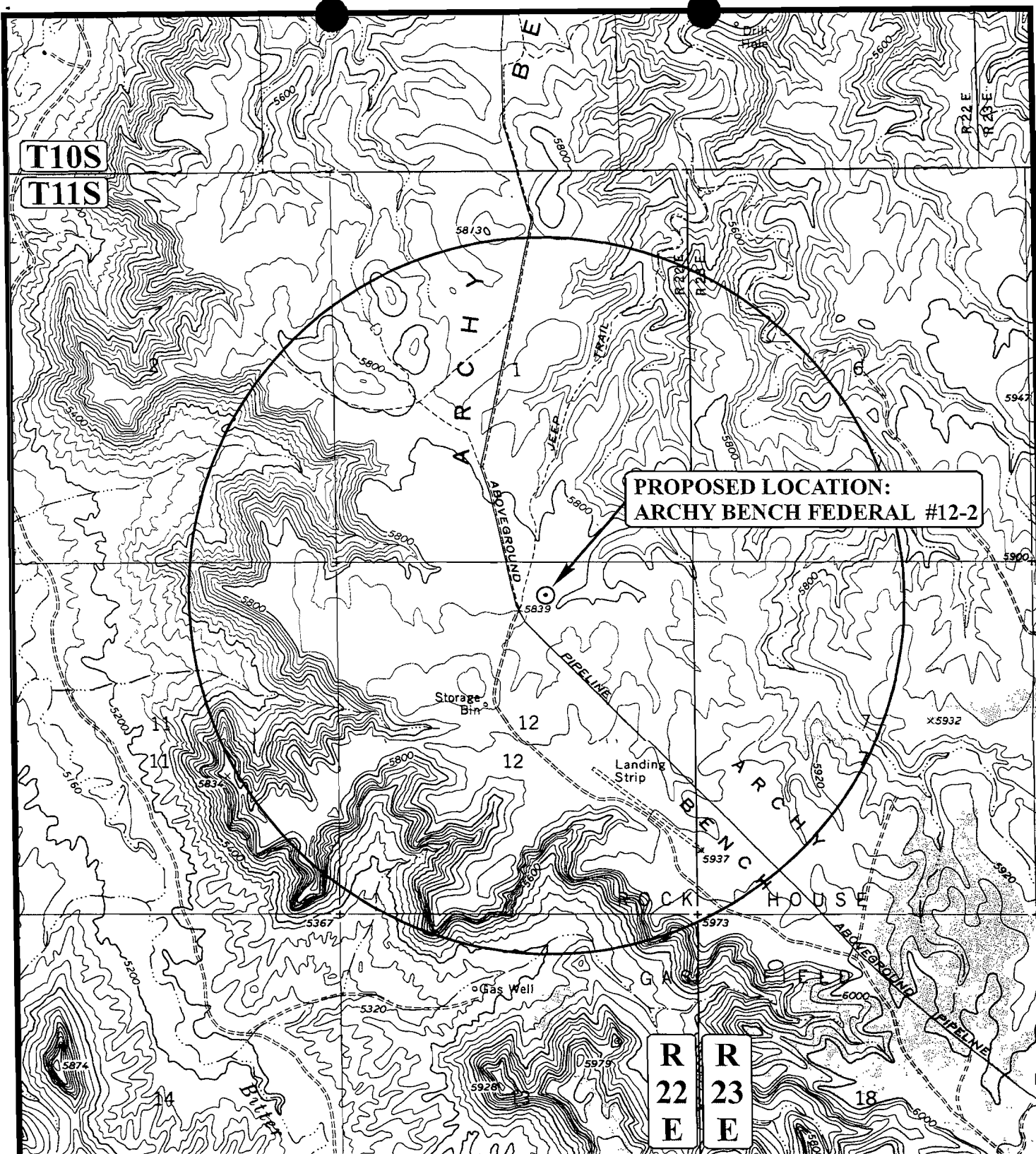
**03 01 05**  
MONTH DAY YEAR

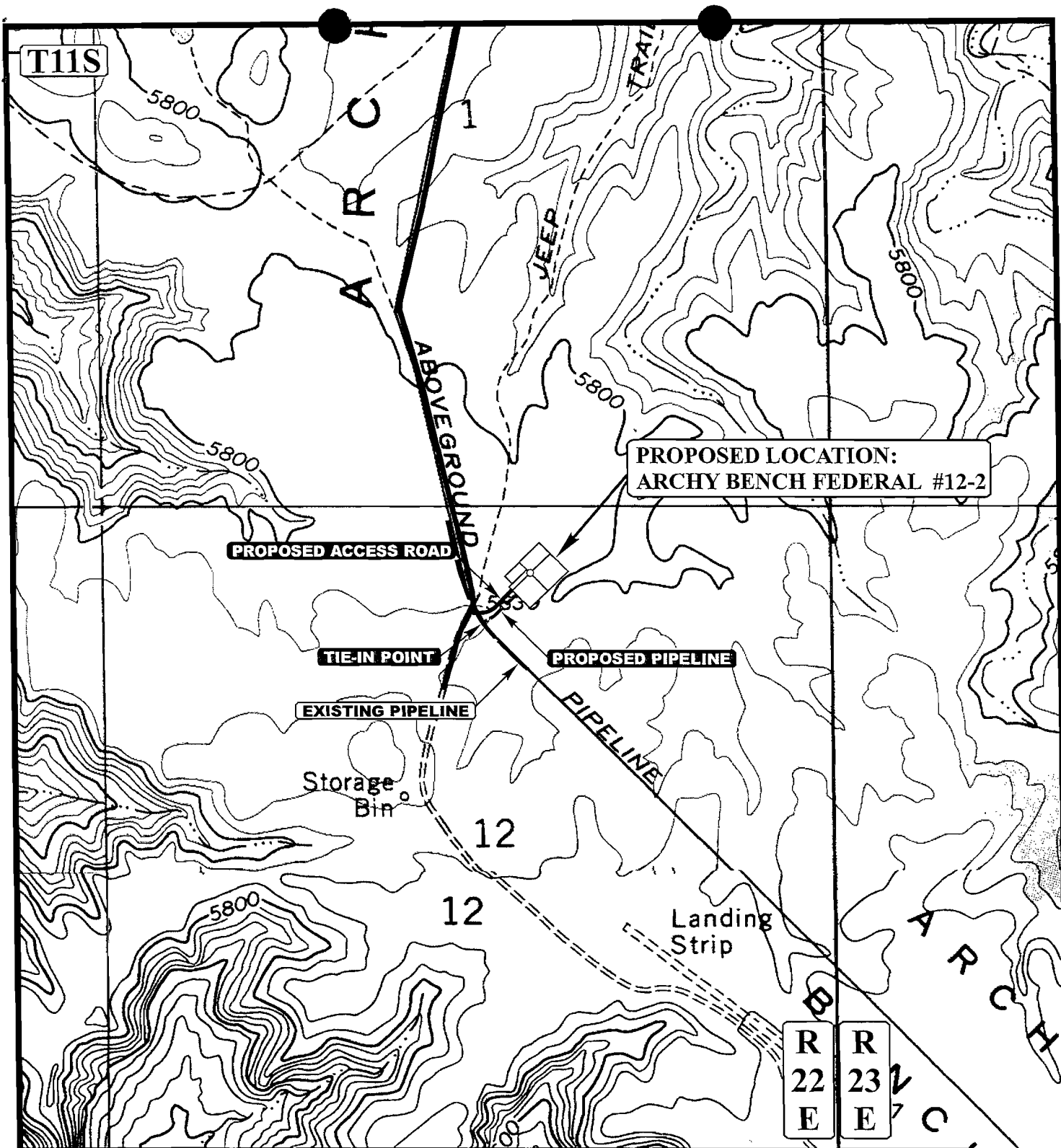
SCALE: 1:100,000 | DRAWN BY: L.K. | REVISED: 00-00-00











APPROXIMATE TOTAL PIPELINE DISTANCE = 300' +/-

# LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



McELVAIN OIL & GAS PROP., INC.

ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.  
474' FNL 2168' FEL



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85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

03 01 05  
MONTH DAY YEAR

SCALE: 1"=1000' DRAWN BY: L.K. REVISED: 00-00-00



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU - 73903

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

Archy Bench Federal #12-2

9. API Well No.

43-047-36897

10. Field and Pool, or Exploratory

Rock House Under Sign

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 12, T11S-R22E, S.L.B.&M.

12. County or Parish

Uintah

13. State

Utah

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

☐ Single Zone

☒ Multiple Zone

2. Name of Operator

McElvain Oil & Gas Properties, Inc.

3a. Address

1050 - 17th Street, Ste. 1800 Denver, CO. 80265

3b. Phone No. (include area code)

303.893.0933

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 2,168' FEL & 474' FNL (NWNE) Sec. 12, T11S-R22E S.L.B. & M.

At proposed prod. zone same (vertical well) 636727X 39.281013 4455654 -109.401079

14. Distance in miles and direction from nearest town or post office\*

60 driving miles and 40 direct miles South-Southeast of Vernal, Utah

15. Distance from proposed\*

location to nearest 2,168' west of lease line  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

16. No. of Acres in lease

1,341.28

17. Spacing Unit dedicated to this well

40.0 acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

3,778 feet

19. Proposed Depth

8,650 feet

20. BLM/BIA Bond No. on file

LPM 4138223 (nation-wide bond)

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5,839' GL

22. Approximate date work will start\*

October 2005

23. Estimated duration

30 Days Construction & Drilling

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized officer.

25. Signature

Name (Printed/Typed)

E. Reed Fischer

Date

7/11/05

Title

Operations Engineer

Approved by (Signature)

Name (Printed/Typed)

BRADLEY G. HILL

Date

07-14-05

Title

ENVIRONMENTAL SCIENTIST III

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct  
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

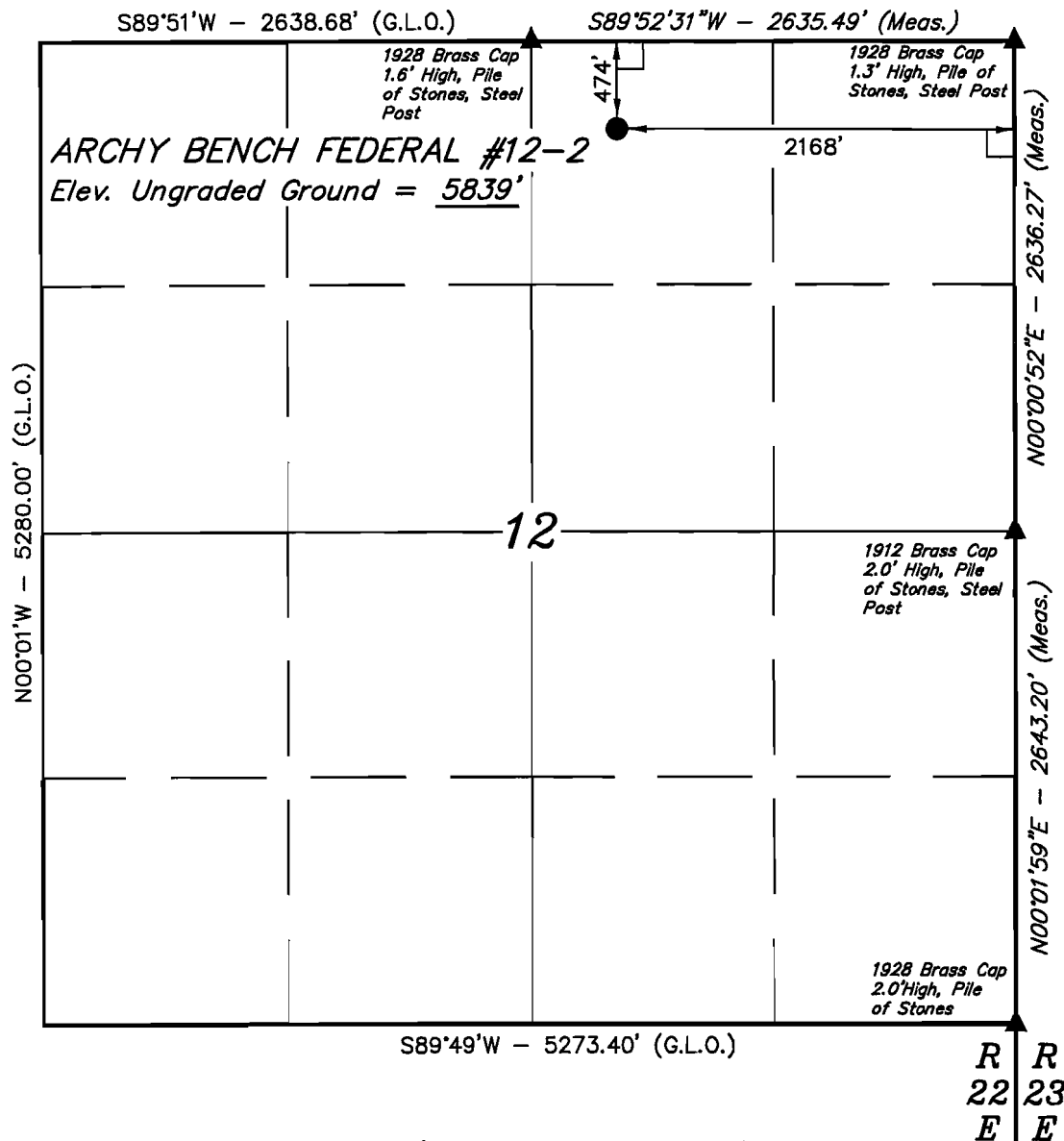
RECEIVED

JUL 13 2005

Federal Approval of this  
Action is Necessary

DIV. OF OIL, GAS & MINING

**T11S, R22E, S.L.B.&M.**



**LEGEND:**

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)

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**McELVAIN OIL & GAS PROP., INC.**

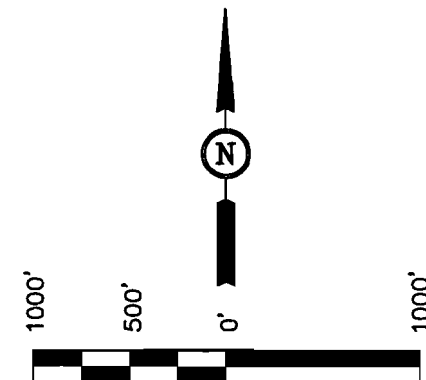
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THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert H. Gray*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
**85 SOUTH 200 EAST - VERNAL, UTAH 84078**  
(435) 789-1017

SCALE 1" = 1000'		DATE SURVEYED: 03-03-05	DATE DRAWN: 03-06-05
PARTY S.H. L.M. D.R.B.		REFERENCES G.L.O. PLAT	
WEATHER COLD		FILE McELVAIN OIL & GAS PROP., INC.	

## Drilling Plan

McElvain Oil & Gas Properties, Inc.

Archy Bench Federal # 12-2

Surface Location NW ¼, NE ¼, Section 12, T11S-R22E, S.L.B. & M.  
Uintah County, Utah

### 1. Surface Formation

Uintah

### 2. Estimated Formation Tops and Datum

(Datum Assumes 12' KB above ungraded GLE of 5,839' from sea level = 5,851' KB)

<u>Formation</u>	<u>Top @ Drill Depth</u>	<u>Datum</u>	<u>Anticipated Fluids</u>
Uintah	Surface	+5851' KB	
Green River	1751'	+4100' KB	
Uteland Butte	3751'	+2100' KB	
Wasatch	3851'	+2000' KB	Gas, Water
Mesaverde	5851'	+0' KB	Gas, Water, Condensate
Castlegate	8101'	- 2250' KB	Gas, Water, Condensate
Mancos	8461'	- 2610' KB	Gas, Water, Condensate
Estimated TD	8650'	- 2799' KB	

Potential formation objectives include the Green River, Uteland Butte, Wasatch and Mesaverde including the Mesaverde sub-members of Castlegate and Mancos. The primary objectives are the Wasatch and Mesaverde.

### 3. BOP and Pressure Containment Data

Formation pressures are anticipated to be normally or slightly under-pressured with a maximum bottom hole pressure of slightly less than 3,750 psi.

The 3000-psi WP BOP system will consist of one 11" 3,000 psi annular BOP, one 11" 3,000 psi double ram preventer and one 11" drilling spool. Please refer to the attached BOP diagram. The lower ram will contain pipe rams and the upper ram will contain blind rams. An 11" rotating head may be installed above the annular preventer. The choke and kill lines, and the choke manifold will have a 3,000 psi minimum pressure rating. The BOP system, including the surface casing, will be pressure tested following installation and prior to drill-out of the surface casing. The annular preventer will be high pressure tested to 1,500 psi. The rams, choke manifold, Kelly safety valves, drill string valves, and inside BOP valve will be high pressure tested to 3,000 psi. Pressure tests will be conducted to the minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

#### 4. Proposed Hole, Casing and Cementing Data

##### Hole & Casing Configuration

<u>Hole Size</u>	<u>Hole Interval</u>	<u>Casing Size</u>	<u>Setting Depth</u>	<u>Casing New/Used</u>
12 1/4"	0 - 520'	9 5/8"	500 - 520'	New
7 7/8"	520 - TD	4 1/2"	T.D.	New

##### Casing Properties

<u>Csg Size</u>	<u>Csg Wt./Ft</u>	<u>Csg Grade</u>	<u>Csg Thread</u>	<u>Csg Collapse</u>	<u>Csg Burst</u>	<u>Csg Tensile</u>
9 5/8	32.3	H-40	ST&C	1,400 psi	2,270 psi	254,000#
4 1/2	11.6	I-80	LT&C	6,350 psi	7,780 psi	201,000#

If used, conductor pipe will be set at approximately 40 and have a 14" minimum outside diameter.

##### Cement Program

<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amount</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
9 5/8"	Premium + 2% CaCL + 0.25 lb/sk. Cello Flake.	265 sacks	1.18 cf/sk	15.6 lbs/gal

*The above surface casing cement volume is based upon 100% excess to obtain cement to surface*

4 1/2"	<u>Lead</u> (3400'-surface) Premium + 16% Gel + 1% Econolite + 5#/sk Gilsonite +1.5#/sk Granulite + 0.25#/sk Flocele + 3% Salt	250 sacks	3.81 cf/sk	11.0 lbs/gal
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	<u>Tail</u> (TD to 3400') Premium-AG + 2% Gel + 0.5% Halad(R)-9 + 0.3% CFR-3 + 2% Microbond + 0.1% Super CBL	985 sacks	1.52 cf/sk	14.2 lbs/gal
--	--	-----------	------------	--------------

*The above production casing cement volume is based upon 25% excess, or if accurate caliper log obtained, 15% excess to obtain cement to surface.*

*A stage tool may be run if drilling conditions indicate a two stage job is warranted or if favorable mud log shows and elog responses indicate potential pay in the Uteland Butte or Green River Formation.*

### **Float Equipment & Centralizers**

Surface casing will be single staged with a guide shoe, 1 joint casing, and a baffle. A minimum of 3 bow spring centralizers will be run on bottom as follows: Center of shoe joint, top of 1st casing connection & top 2nd casing connection.

Production casing will be single staged with a float shoe, 1 joint casing, and a float collar. A minimum of 3 centralizers will be run on bottom plus additional centralizers run through potential pay zones in the tail cement interval. If a stage tool is utilized, centralizers will be run within 100' above and below the stage tool.

### **5. Mud Program**

<u>Interval</u>	<u>Mud Type</u>	<u>Mud weight lbs./gal.</u>	<u>Viscosity Sec./Qt.</u>	<u>Fluid Loss Ml/30 Min.</u>
0 - 500'	Air & Mist			No Control
500 - 3,000'	Water	8.4 - 8.8	28 - 36	No Control
3,000 - 8,650' (TD)	Water/Gel	8.8 - 9.4	32 - 42	8 - 10

*Unless hole conditions dictate otherwise, mud-up is anticipated to start at approximately 700' above the Uteland Butte formation.*

### **6. Testing, Coring, Sampling and Logging Program**

- a) Test: None are anticipated.
- b) Coring: There is the possibility of sidewall coring.

#### **c) Sampling:**

Mud loggers will be scheduled for call-out following the drill-out of the surface casing shoe. Installation of gas detection equipment and recovery of cuttings samples will start in the Green River formation at approximately 2,500' drill depth. Initially, a 30 foot sampling frequency will be scheduled. Depending on drill rates and shows, and at the geologist's discretion, sampling frequency may be increased to 10 foot intervals.

#### **d) Electric Logging:**

<u>Type</u>	<u>Interval</u>
Array Induction-Gamma Ray-SP-Caliper	TD to Surface Casing
Density-Neutron-Gamma Ray-SP-Caliper	TD to $\pm$ 2,500'
Cement Bond Log-Gamma Ray	PBTD to Top of Cement

**7. Abnormal Conditions**

Oil and gas shows are anticipated but no abnormal pressures, temperatures or other hazards are anticipated. Other wells drilled in the area have not encountered H<sub>2</sub>S. Formation pressures are anticipated to be normally pressured (0.435 psi/ft) or slightly under-pressured with a maximum bottom hole pressure of slightly less than 3,750 psi. Maximum anticipated surface pressure equals approximately 1,860 psi (Normal pressure gradient less partially evacuated hole times depth: 0.435 psi/ft – 0.22 psi/ft x 8,650' TD = 1,860 psi).

**8. Anticipated Starting Date & Drilling Schedule**

Location building and the subsequent spud is anticipated within 120 days of the receipt of an approved drilling permit and conditioned upon lease wildlife stipulations. The duration of location construction, drilling & completion operations is expected to be approximately 50 aggregate days comprised of 7 construction days, 2 move-in/rig-up days, 20 drilling days, 2 rig-down/move-out days, 1 location prep day, 12 completion & testing days & 5 battery construction days.

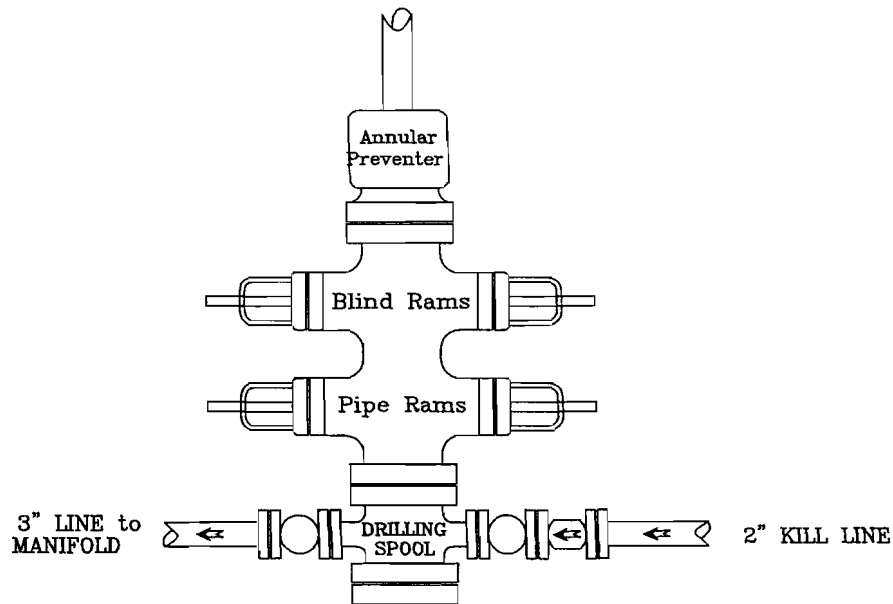
**9. Other**

A Cultural Resource Inventory Report for the well pad, access road and pipe line is attached. The archaeological survey was conducted by Sagebrush Consultants, LLC and their report #1396 indicates that "no cultural resources were located during this inventory".



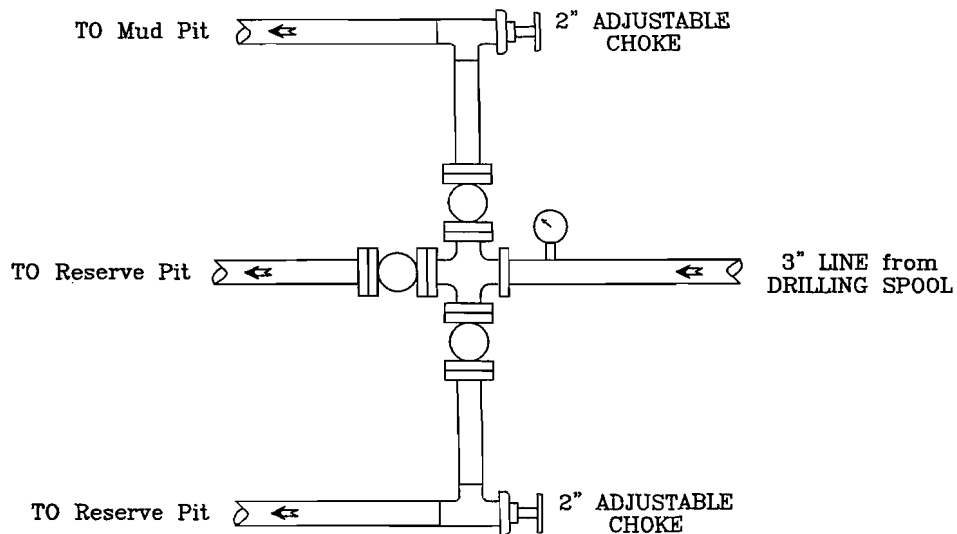
# PRESSURE CONTROL

## BOP Assembly



Preventer, Rams and Spool are to have a  
9" Bore or larger and a 3000 PSI  
or higher Pressure Rating

## Choke Manifold



*McElvain Oil & Gas Properties, Inc.*

Archy Bench Federal #12-2

**McELVAIN OIL AND GAS PROPERTIES, INC.**

**13 POINT SURFACE USE PLAN**

**ARCHY BENCH FEDERAL #12-2**

**NW  $\frac{1}{4}$  NE  $\frac{1}{4}$**

**SEC. 12, T11S-R22E, S.L.B.&M.**

**UINTAH COUNTY, UTAH**

**LEASE NUMBER: UTU-73903**

**SURFACE MANAGER/OWNER:**

**BUREAU OF LAND MANAGEMENT**

## 1. Existing Roads

To reach the proposed Archy Bench Federal #12-2 well in Section 12, T11S-R22E:

Starting in Vernal, Utah

Proceed in a southwesterly direction from Vernal, Utah along U.S. Highway 40 for approximately 14.0 miles to the junction of State Highway 88.

Exit Left and proceed in a southerly direction approximately 17.0 miles to Ouray, Utah.

Proceed in a southerly, then southeasterly direction on the "Seep Ridge Road" for approximately 11.2 miles to the junction of this road and an existing road to the east.

Turn Left on "Glen Bench Road" (CR #3260) which will turn into CR #4120 and proceed in an easterly then southeasterly direction approximately 9.6 miles to the junction of this road and an existing road to the east.

Turn Left and proceed on CR #4120 in an easterly, then northeasterly direction for approximately 2.6 miles to the junction of this road and an existing road to the northeast.

Turn Left and proceed (still on CR #4120) in a northeasterly, then southerly direction for approximately 0.7 miles to the junction of this road and an existing road to the southeast.

Turn Left (on CR #4140) and proceed in a southeasterly, then northeasterly direction approximately 1.3 miles to the junction of this road and an existing road to the south known as the "Archy Bench Road".

Turn Right on CR #4150 (Archy Bench Road) and proceed in a southerly direction for approximately 2.9 miles to the beginning of the proposed location access lying to the northeast.

Follow the road flags in a northeasterly direction approximately 0.1 miles to the proposed Archy Bench #12-2 well-site location.

Total distance from Vernal, Utah to the proposed well is approximately 60 miles.

All existing roads from Vernal, Utah to the location access road are classified as State or County Class D roads.

Anticipated road up-grading and new road construction will occur on approximately 350 feet of access road adjoining and lying immediately southwest of the proposed location.

Please see the attached map B for additional details.

## 2. Planned access road

The proposed location will require approximately 350 feet of new road construction.

The new road will be built to the following standards:

A) Approximate length	350 Ft.
B) Right of Way width	30 Ft.
Running Surface	18 Ft.
C) Maximum grade	< 5%
D) Turnouts	None
E) Major cuts and fills	None
F) Culvert	One
G) Surfacing material	Native Soil
H) Fence crossing	None
I) Road flagged	Yes
J) Access road surface manager/owner	BLM
K) Pipe line crossing	One
L) Stream crossings	None
M) All new construction on lease	Yes

Please see the attached location Map B for additional details.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surfacing Operating Standards for Oil and Gas Exploration and Development, 1989. This is also referred to as the Gold Book.

The road will be constructed to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction shall include ditching, draining, graveling, crowning, and capping the road bed, as necessary, to provide for a safe well-constructed road. Prior to construction, the road shall be cleared of any snow cover and allowed to dry. Travel off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type (unless specified differently). Crossings will be constructed so they will not cause "silt-up" or accumulation of debris in the drainage crossing, nor shall the drainages be blocked by the roadbed. Erosion of the drainage ditches by runoff water shall be prevented by diverting water at frequent intervals by utilizing cutouts. Up grading will not be constructed during muddy conditions. Should mud or dust holes develop, they will be filled in and detours around them avoided.

### 3. Location of existing wells

The following wells are located within a one mile radius of the location site.

A) Water well	None
B) Abandoned well	None
C) Temp. abandoned well	None
D) Disposal well	None

E)	Drilling/Permitted/Applied well	One Applied (Archy Bench #1-7)
F)	Producing well	None
G)	Shut in well	None
H)	Injection well	None
I)	Monitoring or observation well	None

Please see the attached map C for additional details.

**4. Location of tank batteries, production facilities, and production gathering service lines.**

**A) Production Facility**

All production facilities will be contained within the proposed location site. Please see the attached plan for a typical gas well equipment and pipe lay-out.

All permanent structures (on site for six month or longer), constructed or installed, will be painted a flat, non-reflective, earth-tone color to match one of the standard environmental colors. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

If the well is capable of economic production, a gas gathering line will be required.

**B) Gas Gathering Line**

The Operator proposes to install approximately 300 feet of steel gas gathering line if an economic well is drilled and completed. Construction of the gathering line will start at the #12-2 well site location and head southwest along the southern edge of the new access road until reaching the proposed tie-in point with an existing gathering line located in the NWNE portion of Section 12, T11S-R22E.

Please see map D for gathering line location.

The gathering line will not require an off lease right-of-way.

The line will be a 3-4" steel line, depending on the anticipated well deliverability.

Max operating pressure will be 500 psi.

The operating temperature of the gathering system will reflect the daily ambient temperature of the area.

At this time, there are no plans for on-site compression or pumping stations.

The gathering line will not be hydrostatically tested.

The pipe line will be laid and utilized above ground. The pipe line will be removed when there is no continuing need for this gathering line. Prior to removing the line, an onsite will be requested with the BLM to insure that the removal and reclamation will conform to all applicable BLM regulations and requirements.

There will be no additional surface disturbances required for the installation of a gathering line. The pipeline will be welded together and pulled from the well-site location and tie-in points when practical, although it may be necessary to utilize small segments of the access road for some of the pipe line welding. The line will then be boomed off to the side of the road.

A gas meter will be located within 500' of the well head. The gas line will be buried or anchored down from the well head to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the production tank(s) strapped in place prior to any sales deliveries from the well. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

## **5. Location and type of water supply**

Water for drilling and cementing the subject well will fresh water and will be trucked by contractor Tu & Frum, Inc. Depending on road conditions, water will be trucked from: Rose Wood Resources flowing water well, Well #5A, in Section 24 T11S-R23E, water permit number 49-1547, and/or the White River, permit #T-75517. Completion water will come from the same supply or from the City of Vernal, Utah.

## **6. Source of construction materials**

All construction material for this location site and access road shall be borrowed material accumulated during construction of the location site and access road. Additional road gravels or pit lining material will be obtained from private sources.

## **7. Methods for handling waste disposal**

### **A) Pit construction and liners:**

The reserve pit will be approximately 8 to 10 feet deep and most of the depth shall be below the surface of the existing ground. Please see the attached plat for details.

The reserve pit will not be lined unless the pit is blasted or soil conditions warrant a pit liner.

If a plastic liner is required by the BLM or used by the operator, it will be a nylon reinforced liner. It will be a minimum of 12 mil thickness with sufficient bedding (i.e. weed free straw or hay, felt, or soil) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rock to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

The pit will be used to hold non-flammable materials such as drilling make-up water, drill cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

**B) Produced fluids**

Produced water will be confined to the reserve pit, or if deemed necessary, a steel storage tank will be utilized for water storage for a period not to exceed 90 days after initial production. Produced water accumulated after the initial production and testing period will be stored in steel tank(s) before truck removal to an authorized disposal pit or injection well.

**C) Garbage**

A trash cage fabricated from expanded metal will be used to hold trash on location. All trash will be removed to an authorized landfill location.

**D) Sewage**

A portable chemical toilet will be supplied for human waste during the drilling operation.

**E) Site clean up**

After the drilling and the completion rig is moved off the location, the well site area will be cleaned and all refuse removed.

**F) Hazardous Material Statement**

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well.

**8. Ancillary facilities**

There are no ancillary facilities planned at this time and none are foreseen in the future.

## 9. Well-site layout and location

The proposed location has been staked at 474' FNL & 2,168' FEL of Section 12, T11S-R22E.

### Well-site layout

Location dimensions are as follows:

A) Pad length	345 ft	G) Max fill	6.9 ft
B) Pad width	160 ft	H) Total cut yards	5,660 cu. yds.
C) Pit depth	8 – 10 ft	I) Pit location	Southwest side
D) Pit length	150 ft	J) Top soil locations	corner D & 6
E) Pit width	70 ft	K) Access road location	Southwest side
F) Max cut	9.9 ft	L) Flare pit	Corner C

Please see the attached location diagram for additional details.

The reserve pit will be fenced on three sides during drilling operations. The fourth side will be fenced when the drilling rig is removed from the location. The fence will be maintained until clean-up.

All pits will be fenced according to the following minimum standards:

- A) Thirty-nine inch net wire shall be used with at least one strand of barb wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

## 10. Plans for restoration of the surface



Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. This stripped top soil will amount to approximately 1,390 cubic yards of material. Topsoil will be stockpiled in two piles. Placement of the topsoil is noted on the attached location plat. The stock piled topsoil will be seeded with the seed mix dictated by the BLM. When all drilling and completion activities have been completed and the pit back-filled, the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the topsoil has been spread. The unused portion of the location (the area outside the dead men) will be re-contoured.

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

A) Producing location

Following the back-fill of the reserve pit, the natural drainage pattern shall be restored, as nearly as practical, to its original line of flow.

All disturbed areas will be re-contoured to the approximate natural contours. Prior to back filling the pit, the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow for proper back filling, the Operator will submit a request for an extension of time. Once initiated, reclamation activities will completed within 30 days, weather conditions permitting.

If a reserve pit utilizes a liner, the liner shall be turned down below ground level and perforated before the pit is backfilled.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and runoff from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert runoff as needed.

When restoration activities have been completed, the location site shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

a) Seeding dates

Seed will be spread when the topsoil is stock piled and when reclamation work is performed.

b) Seed mix

The seed mix utilized in the soil reclamation will be in the amounts, and of the type specified by the BLM in their "Conditions of Approval".

B) Dry hole/Abandoned location

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriate surface rehabilitation conditions of approval.

**11. Surface Manager/Owner**

Location	Bureau of Land Management
Access road	Bureau of Land Management
Pipeline	Bureau of Land Management

**12. Other information**

A) Vegetation

The vegetation coverage is slight. The predominant existing vegetation consists of sage brush.

B) Dwellings

There are no dwellings within a one mile radius of the location. An unoccupied storage bin is located approximately 3/8 mile to the south-southwest of location.

C) Archeology

A cultural resource inventory survey was conducted on the proposed well-site location, access road and pipe line route. A copy of this report, entitled Sagebrush Report No. 1396, is included with this APD, and two copies of this report were sent to Blaine Phillips with the Vernal BLM in April 2005.

During any operations, if archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations which would affect such sites or objects will be suspended and the BLM will be immediately notified.

D) Water

The nearest live water is The White River,  $\pm$  4.0 miles north-northeast of the proposed location.

E) Chemicals

No pesticides, herbicides or other possible hazardous chemicals will be used without AO approval.

F) Notifications

The Bureau of Land Management will be notified as follows

- a) Location construction  
At least 48 hours prior to construction of location and access roads
- b) Location completion  
24 hours prior to moving the drilling rig on location.
- c) Spud notice  
At least 24 hours prior to well spud.
- d) Casing string and cementing  
At least 24 hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests  
At least 24 hours prior to initial pressure tests.
- f) Abandonment – Newly Drilled Dry Holes and/or Hole Failures  
At least 24 hours prior to start of abandonment operations. In certain situations, Operator may be unable to provide 24 hour advance notice, but in all situations, Operator will receive abandonment orders from the BLM prior to the actual commencement of abandonment operations.
- g) First production notice  
Within 5 business days after the new well begins, or production resumes after well has been off production for more than 90 days.
- h) Completion and Re-completion Operations  
At least 24 hours prior to moving the rig on location.
- i) State of Utah Division of Oil, Gas, and Mining (DOGM) Notifications  
Within 24 hours of well spud, Operator will notify DOGM at 801.538.5284. Prior to commencement of operations to plug and abandon the well, Operator will notify DOGM at 801.538.5338.

G) Flare pit

The flare pit will be located in corner C of the reserve pit and outside the pit fence on the south side of the location. All fluids will be removed from the flare pit within 48 hours of occurrence.

#### H) Wildlife Stipulations

Wildlife stipulations and possible activity restrictions will be detailed in the "Conditions of Approval" received with an approved Permit to Drill. Operator will comply with these wildlife "conditions of approval".

#### I) Onsite

Onsite Date: Friday, April 15, 2005

Onsite attendants

Stan Olmstead	BLM
Reed Fischer	McElvain Oil & Gas
Ivan Sadlier	McElvain Oil & Gas

### 13. Lessees or Operator's representative(s) and certification

#### A) Representatives

Reed Fischer	Ivan Sadlier
Operations Engineer	Production Foreman
1050 – 17 <sup>th</sup> Street, Ste. 1800	P.O. Box 985
Denver, CO. 80265	Vernal, UT. 84078
Off. 303.893.0933 xtn 330	Cell #1: 435.828.0284
Fax. 303.893.0914	Cell #2: 435.828.0282
Cell. 303.981.2921	
E-Mail. <a href="mailto:reedf@mcelvain.com">reedf@mcelvain.com</a>	<a href="mailto:sadlier@easilink.com">sadlier@easilink.com</a>

McElvain Oil & Gas Properties, Inc. is considered to be the operator of the subject well. McElvain Oil & Gas Properties, Inc. agrees to be responsible under the terms and conditions of the lease for operations conducted upon the leased premises.

#### B) Certification

All lease operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, and approved "Plan of Operation", and any applicable "Notice to Lessees".

The operator will be fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representatives to ensure compliance.

Bond coverage for the lease activities is being provided by McElvain Oil & Gas Properties' BLM Nationwide Bond #LPM4138223.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route, that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be performed by McElvain Oil and Gas Properties, Inc. and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Date 7/11/05

McElvain Oil & Gas Properties, Inc.

A handwritten signature in black ink, appearing to read 'E. Reed Fischer', is written over the printed name.

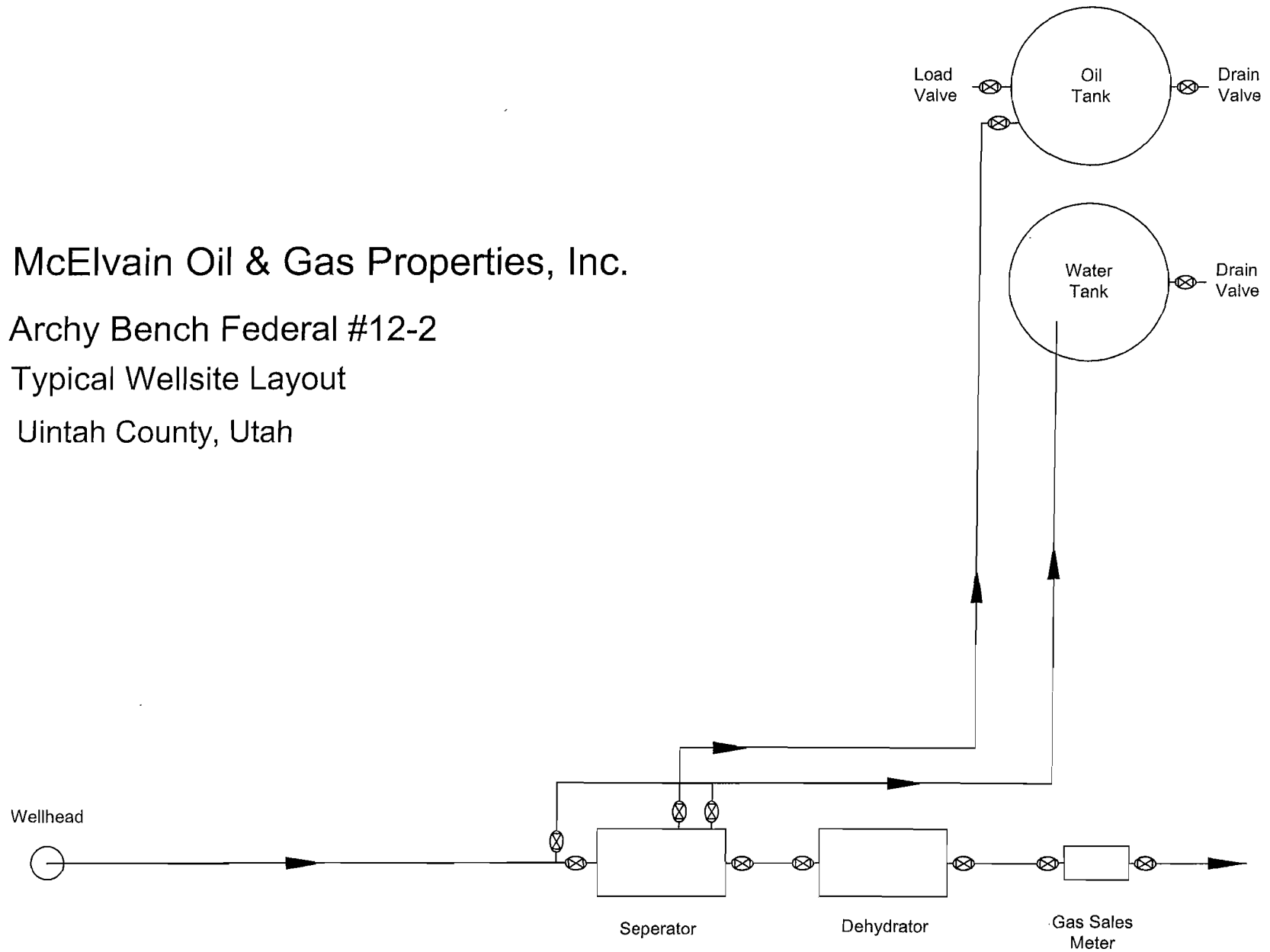
E. Reed Fischer  
Operations Engineer

McElvain Oil & Gas Properties, Inc.

Archy Bench Federal #12-2

Typical Wellsite Layout

Uintah County, Utah



**A CULTURAL RESOURCE INVENTORY OF  
ARCHY BENCH FEDERAL #12-2 WELL, ACCESS ROAD AND PIPELINE,  
UINTAH COUNTY, UTAH**

by

Sandy Chynoweth Pagano  
Assistant Archaeologist

Prepared for:

McElvain Oil & Gas Properties, Inc.  
1050 17th Street, Suite 1800  
Denver, Colorado 80265

Prepared by:

Sagebrush Consultants, L.L.C.  
3670 Quincy Avenue, Suite 203  
Ogden, Utah 84403

Under the Authority of Cultural Resource Use Permit No. 04UT54630

and

Under the Authority of Utah State Antiquities Permit No. U-05-SJ-0216b

Cultural Resource Report No. 1396

April 7, 2005

## INTRODUCTION

In February 2005, Rocky Mountain Consulting, Inc., of Vernal, Utah (RMC) requested that Sagebrush Consultants, L.L.C. (Sagebrush), on behalf of the McElvain Oil and Gas Properties, Inc., conduct a cultural resource inventory of the Archy Bench Federal #12-2 and its associated access road and pipeline, in Uintah County, Utah. The purpose of this inventory is to identify cultural resource sites within the proposed project area.

The proposed well location and its associated access road and pipeline is located in T. 11S., R. 22E., S. 12 on USGS 7.5' Quadrangle Archy Bench SE, Utah (1968; P.R. 1987) (Figure 1). Footages for Archy Bench Federal #12-2 are 474' FNL and 2168' FEL. The well pad and its associated access road and pipeline lie on lands administered by the Bureau of Land Management (BLM), Vernal Field Office. The cultural resource survey was done by Michael R. Polk and Andrew Williamson on March 23, 2005 under the authority of Cultural Resource Use Permit No. 04UT54630 and Utah State Antiquities Permit No. U-05-SJ-0216b.

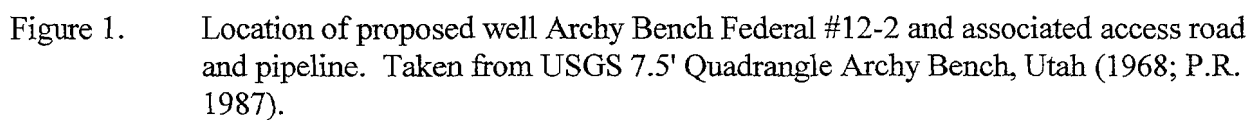
Prior to conducting fieldwork, a GIS file search for previously recorded cultural resource sites and projects conducted near the current project was completed through Kristen Jensen, of the Antiquities Section, Division of State History, Utah Historic Preservation Office (SHPO), in Salt Lake City, on February 16, 2005. This file search was updated on March 31, 2005. Angela Garrison, of Sagebrush, conducted a file search at the SHPO on January 15, 2005. An additional agency file search was conducted by Angela Garrison and Jamie Morrison of Sagebrush on February 11, 2005 at the BLM, Vernal Field Office, in Vernal and updated by Michael R. Polk and Andrew Williamson on March 23, 2005. Sagebrush personnel also reviewed General Land Office (GLO) plat maps located in the Public Room of the BLM Utah State Office, Salt Lake City. The National Register of Historic Places (NRHP) was consulted prior to the commencement of fieldwork for the current project. No NRHP sites were found to be in the vicinity of the current project area.

Multiple previous cultural resource projects have been conducted in the vicinity of the current project. Due to the large number of projects conducted in this area, they will not be listed. However, no cultural resource sites are located within one mile of the current project area.

## ENVIRONMENT

The project area is located in the dissected tablelands south of the White River. The elevation of the area surveyed ranges between 6080 and 6200 feet a.s.l. Sediments in this area consist of tan to light reddish brown sandy silt aeolian deposits. Vegetation in this location covers approximately 30 percent of the ground surface and consists of sagebrush community species including big sagebrush, rabbit brush, ricegrass, greasewood, prickly pear cactus, bunch





grass, four-wing salt bush, and cheat grass intermingled with pinyon-juniper community species. The nearest permanent water source is the White River located about 9.5 miles to the north of the project area. Numerous seasonal drainages and washes are present through the general vicinity of the project area.

Natural disturbances in the area consist of sheetwash, arroyo cutting and aeolian erosion. Cultural disturbances include the construction of existing well pad locations, access roads, and pipelines and impacts from sheep and cattle grazing.

## **METHODOLOGY**

An intensive cultural resource inventory was carried out for the proposed Archy Bench Federal #12-2 well and its associated access road and pipeline. The project area consists of one 40,469 m<sup>2</sup> (10 ac) parcel of land, measuring 201-by-201 m (660-by-660 ft) centered on the proposed well head and 300 ft (0.07 mi) of proposed access road and pipeline corridor. The well location was inventoried in parallel transects spaced no more than 15 m (50 ft) apart. The access and pipeline corridor was walked in parallel transects spaced no more than 15 m (50 ft) apart, to cover a corridor width of 45 m (150 ft). The area surveyed during this cultural resource inventory, including the well pad, access road, and pipeline, totaled 4.47 ha (11.03 acres).

## **RESULTS**

A cultural resource inventory was carried out for the proposed Archy Bench Federal #12-2 well, and its associated access road and pipeline. No cultural resources were located during this inventory.

## **RECOMMENDATIONS**

No cultural resource sites were located during the inventory for the proposed Archy Bench Federal #12-2 well and its associated access road and pipeline. Cultural resource clearance is recommended for the project area. This investigation was conducted with techniques which are considered to be adequate for evaluating cultural resources which could be adversely affected by the project. However, should cultural resources be discovered on state land during construction, a report should be made immediately to the BLM Archaeologist at the Vernal Field Office in Vernal.

**McELVAIN OIL & GAS PROP., INC.**  
**ARCHY BENCH FEDERAL #12-2**  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 12, T11S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



**E&L** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 [uens@ueltac.com](mailto:uens@ueltac.com)

LOCATION PHOTOS

**03 01 05**  
MONTH DAY YEAR

PHOTO

TAKEN BY: S.H.

DRAWN BY: L.X.

REVISED: 00-00-00

# MELVAIN OIL & GAS PROP., INC.

## LOCATION LAYOUT FOR

ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.

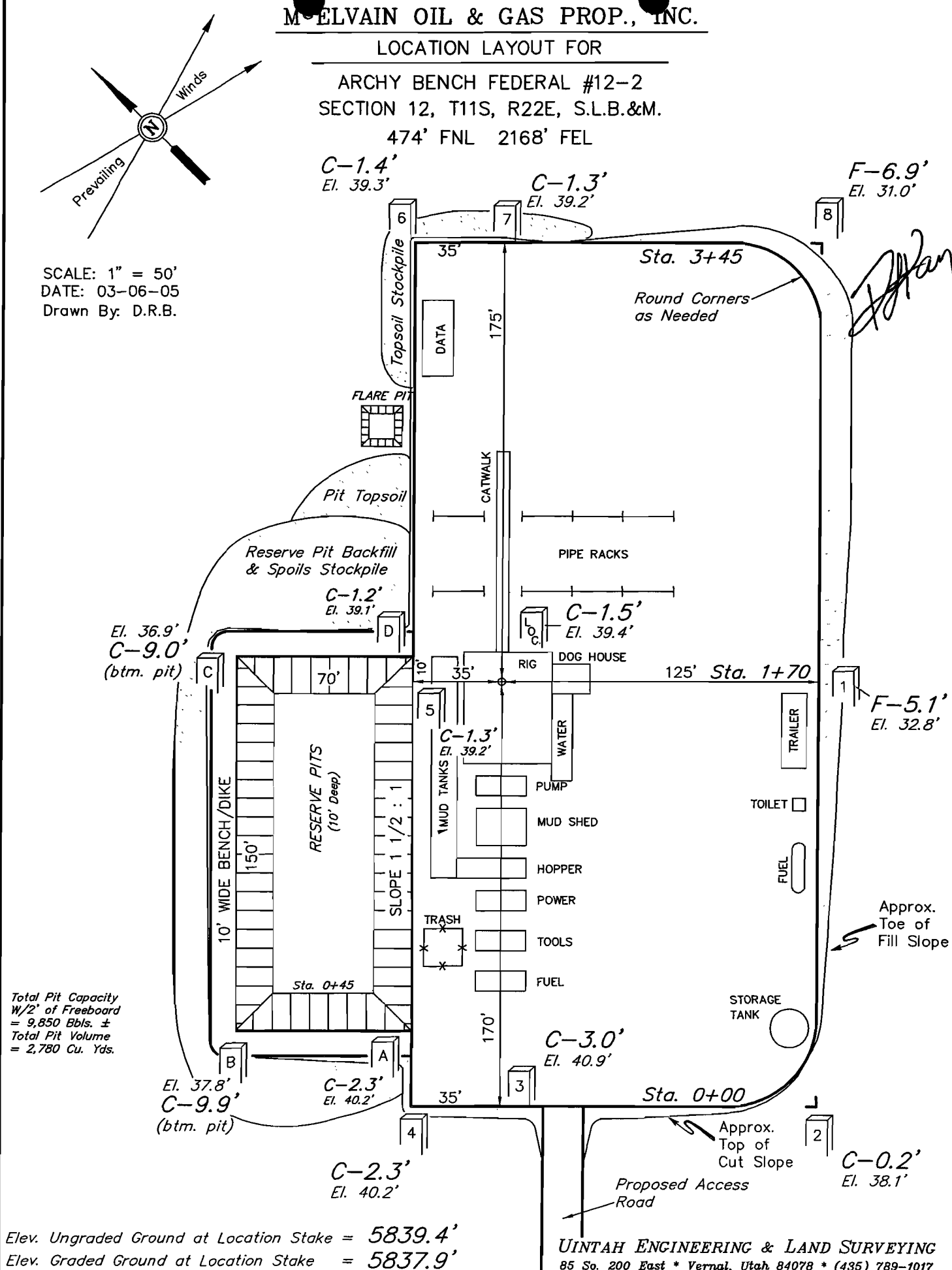
474' FNL 2168' FEL

C-1.4'  
El. 39.3'

C-1.3'  
El. 39.2'

F-6.9'  
El. 31.0'

SCALE: 1" = 50'  
DATE: 03-06-05  
Drawn By: D.R.B.



Elev. Ungraded Ground at Location Stake = 5839.4'  
Elev. Graded Ground at Location Stake = 5837.9'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# McELVAIN OIL & GAS PROP., INC.

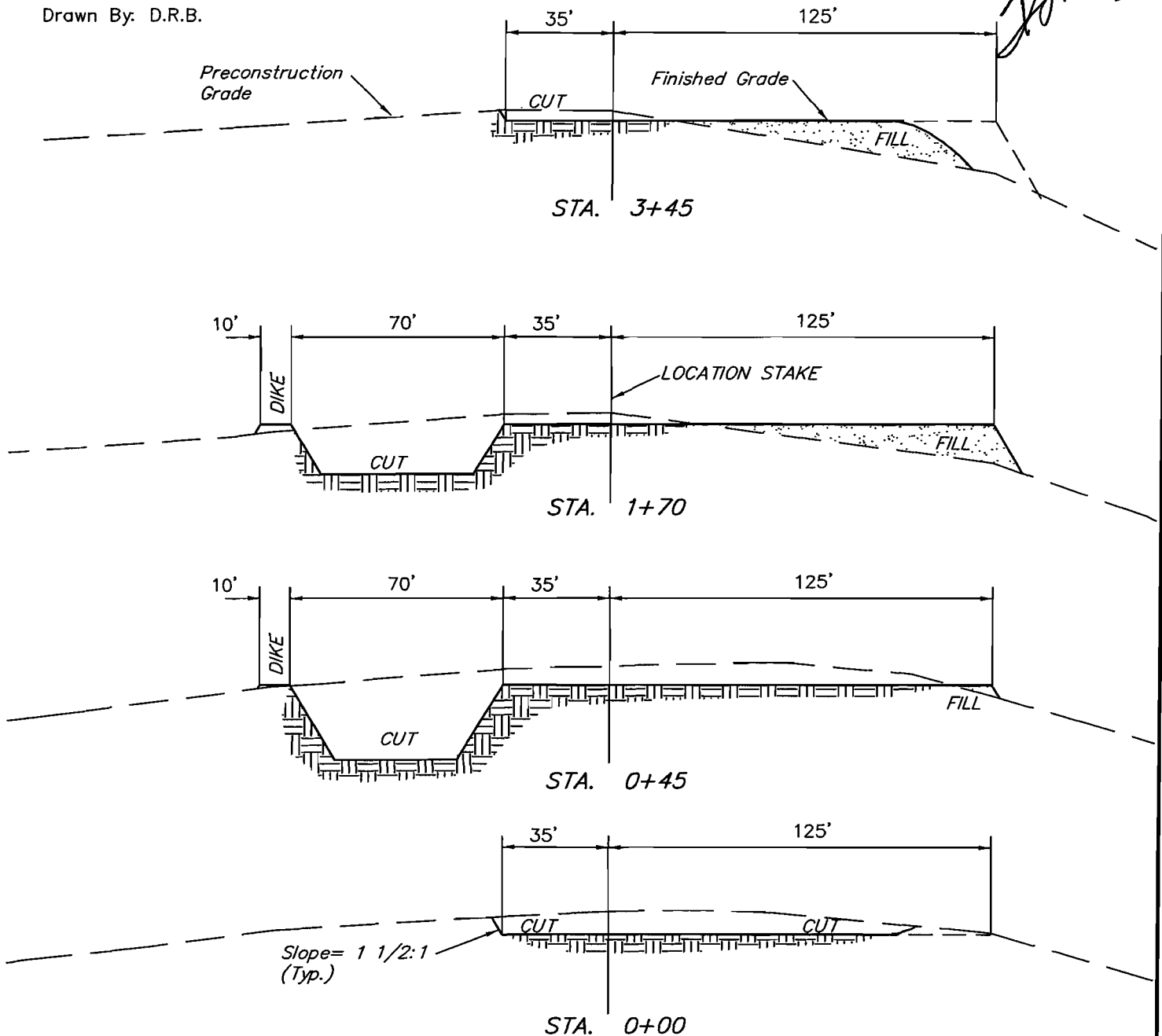
## TYPICAL CROSS SECTIONS FOR

ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.

474' FNL 2168' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 03-06-05  
Drawn By: D.R.B.



### APPROXIMATE YARDAGES

#### CUT

(6") Topsoil Stripping = 1,390 Cu. Yds.

Remaining Location = 4,270 Cu. Yds.

**TOTAL CUT = 5,660 CU.YDS.**

**FILL = 2,880 CU.YDS.**

#### \* NOTE:

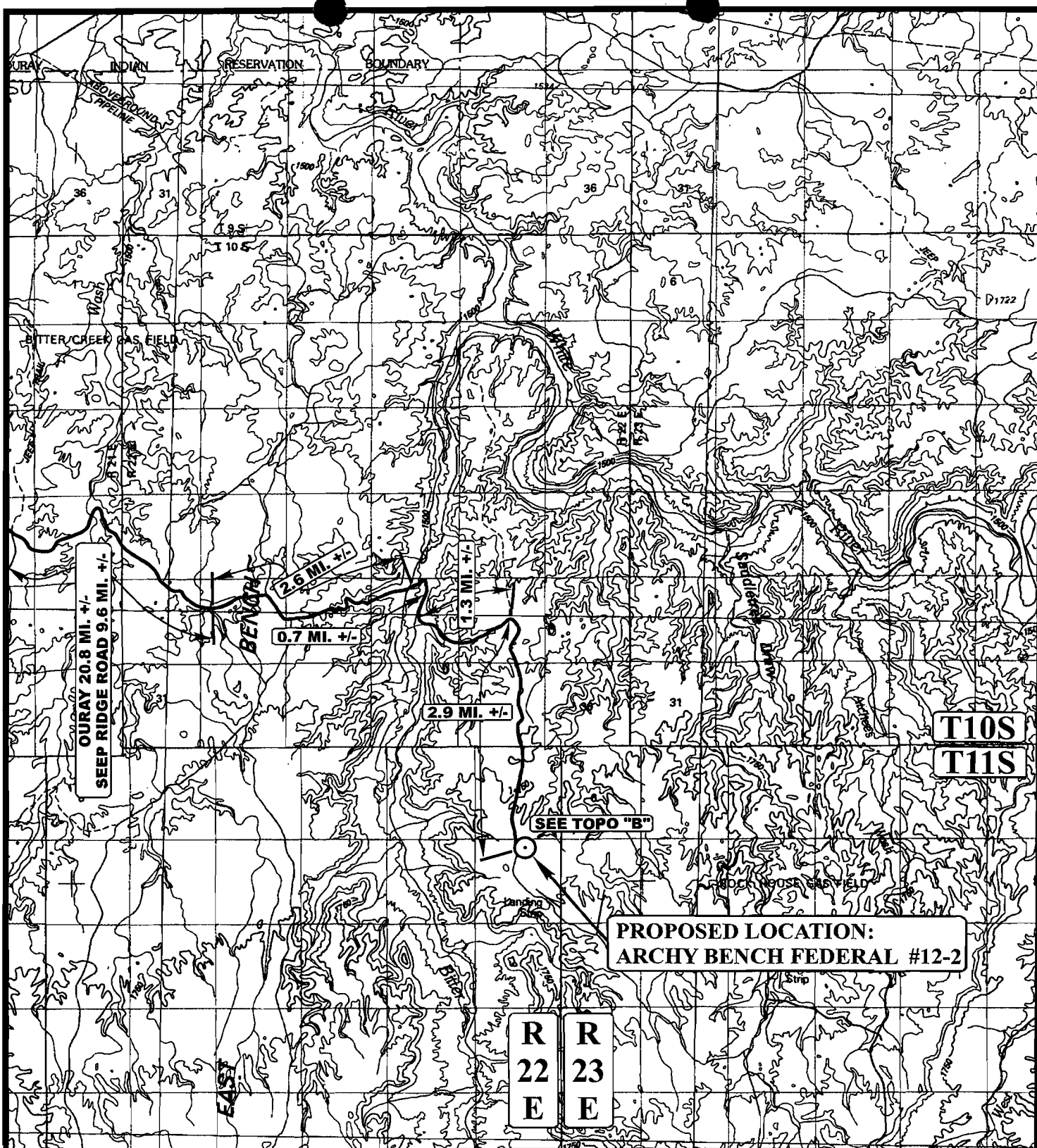
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

Excess Material = 2,780 Cu. Yds.

Topsoil & Pit Backfill = 2,780 Cu. Yds.  
(1/2 Pit Vol.)

EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# **LEGEND:**

⊙ PROPOSED LOCATION

N



**McELVAIN OIL & GAS PROP., INC.**

**ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.  
474' FNL 2168' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

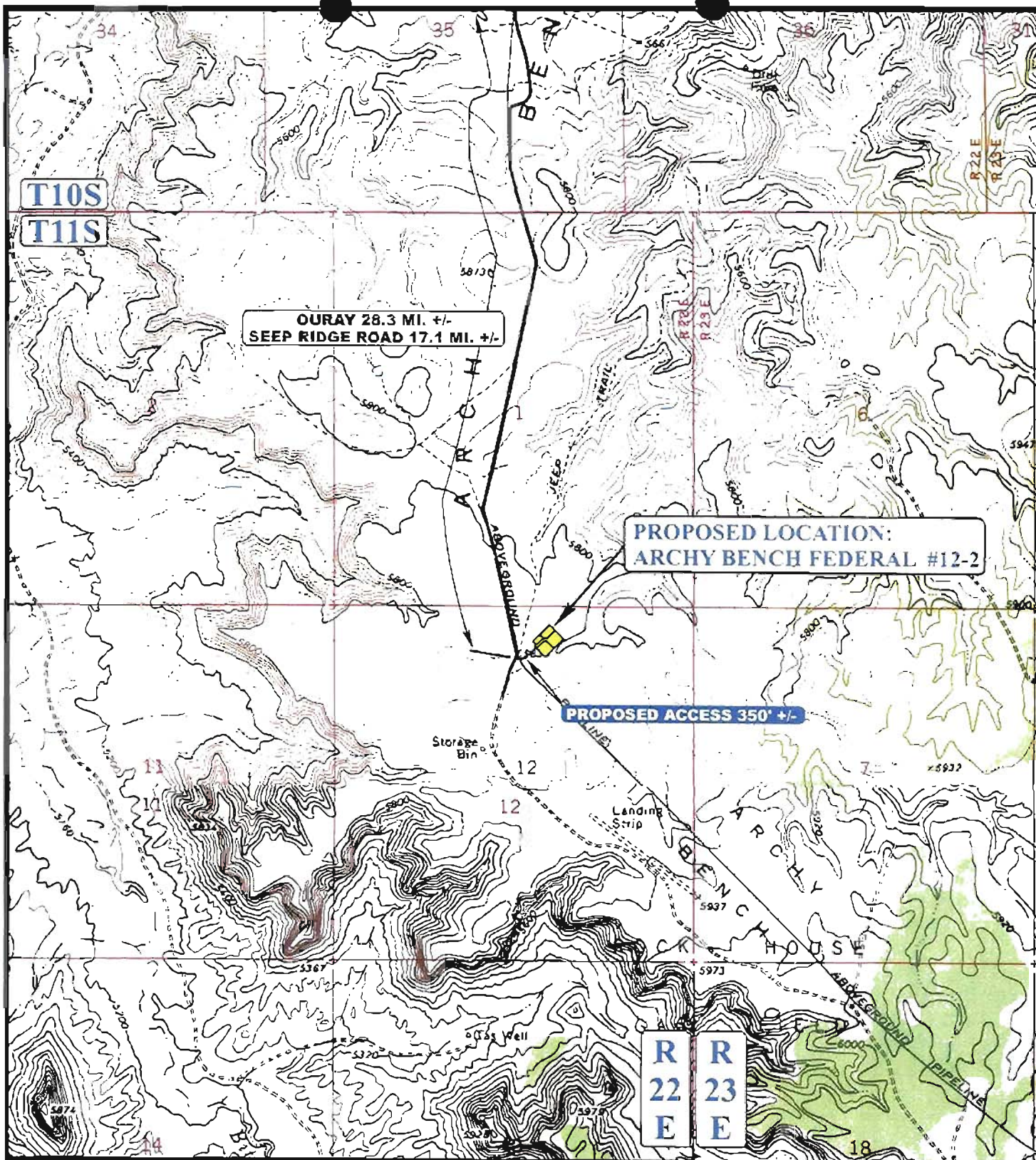
**TOPOGRAPHIC  
MAP**

**03 01 05**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REVISED: 00-00-00







# LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD



McELVAIN OIL & GAS PROP., INC.

ARCHY BENCH FEDERAL #12-2  
SECTION 12, T11S, R22E, S.L.B.&M.  
474' FNL 2168' FEL

**UEIS** Uintah Engineering & Land Surveying  
35 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

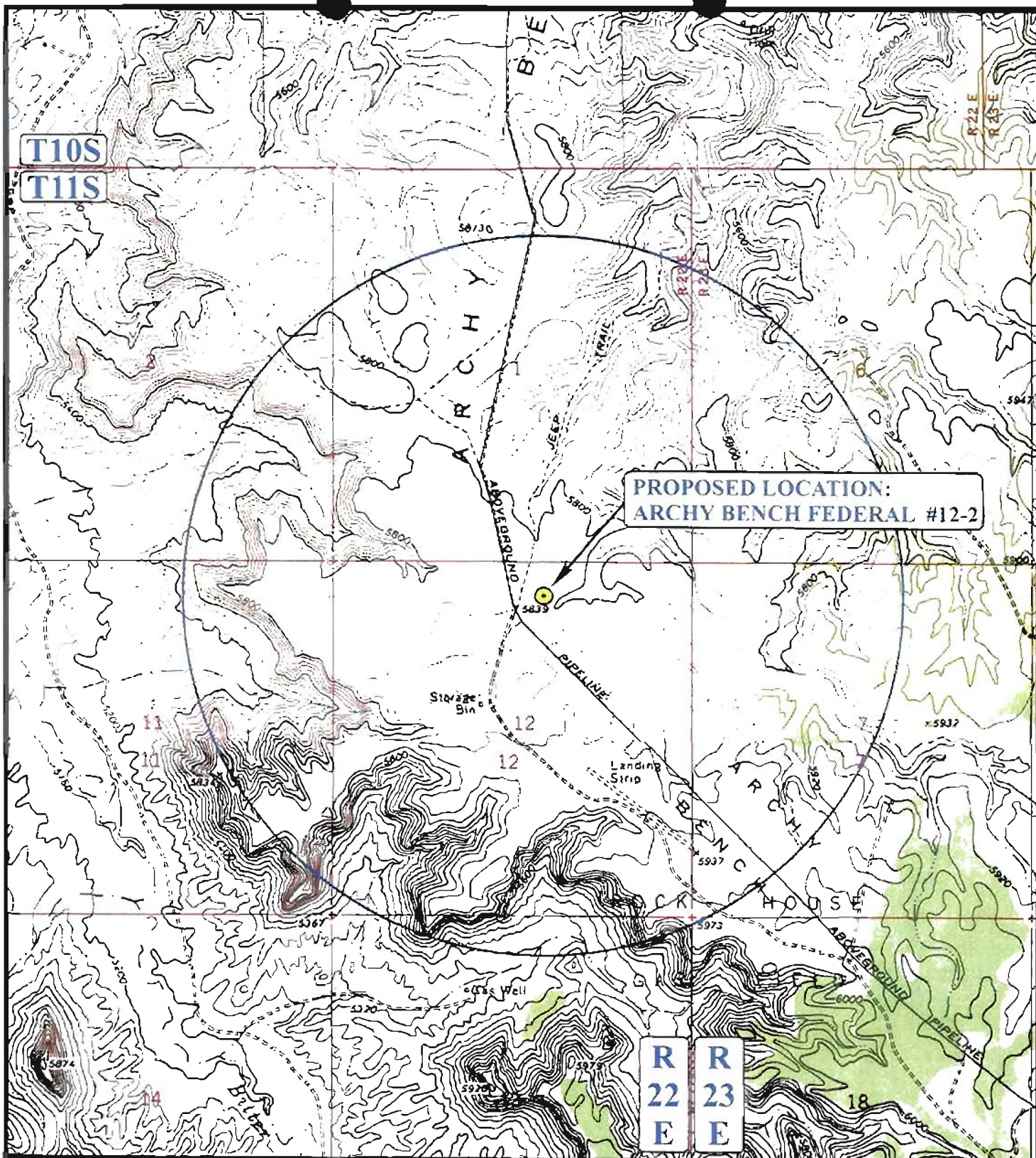
TOPOGRAPHIC  
MAP

03 01 05  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00

**B**  
TOPO





# **LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**McELVAIN OIL & GAS PROP., INC.**

**ARCHY BENCH FEDERAL #12-2**  
**SECTION 12, T11S, R22E, S.L.B.&M.**  
 474' FNL 2168' FEL

**TOPOGRAPHIC**  
**MAP**

**03 01 05**  
 MONTH DAY YEAR

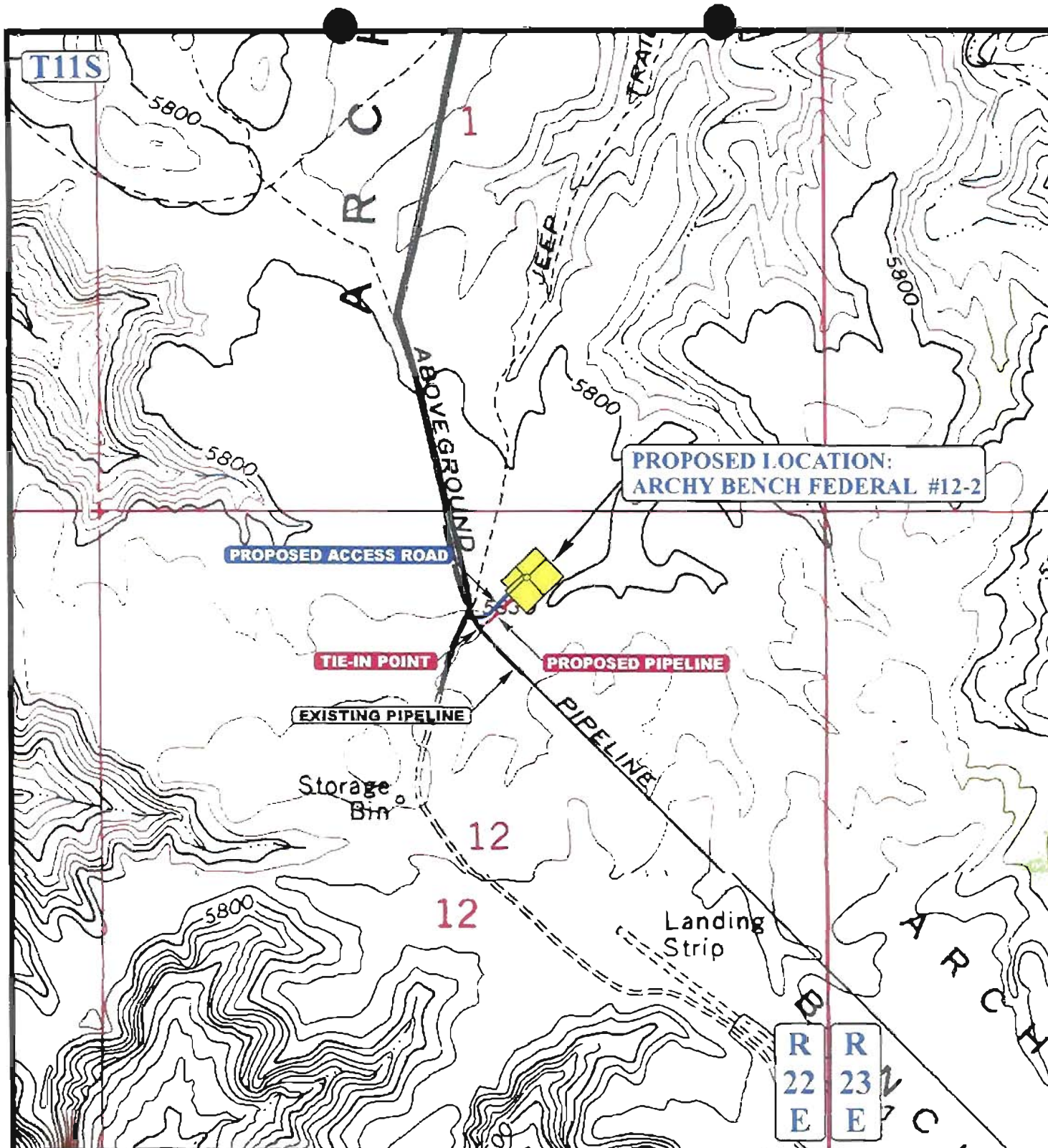
SCALE: 1" = 2000'

DRAWN BY: L.K.

REVISED: 00-00-00







**APPROXIMATE TOTAL PIPELINE DISTANCE = 300' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - PROPOSED PIPELINE



**McELVAIN OIL & GAS PROP., INC.**

**ARCHY BENCH FEDERAL #12-2**  
**SECTION 12, T11S, R22E, S.L.B.&M.**  
**474' FNL 2168' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 - FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**03 01 05**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: L.K. REVISED: 00-00-00

**D  
TOPO**

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/13/2005

API NO. ASSIGNED: 43-047-36897

WELL NAME: ARCHY BENCH FED 12-2

OPERATOR: MCELVAIN OIL & GAS ( N2100 )

CONTACT: E. REED FISCHER

PHONE NUMBER: 303-893-0933

PROPOSED LOCATION:

NWNE 12 110S 220E

SURFACE: 0474 FNL 2168 FEL

BOTTOM: 0474 FNL 2168 FEL

UINTAH

UNDESIGNATED ( 2 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-73903

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MNCS

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.88101

LONGITUDE: -109.4011

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. LPM 4138223 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 49-1547 )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)

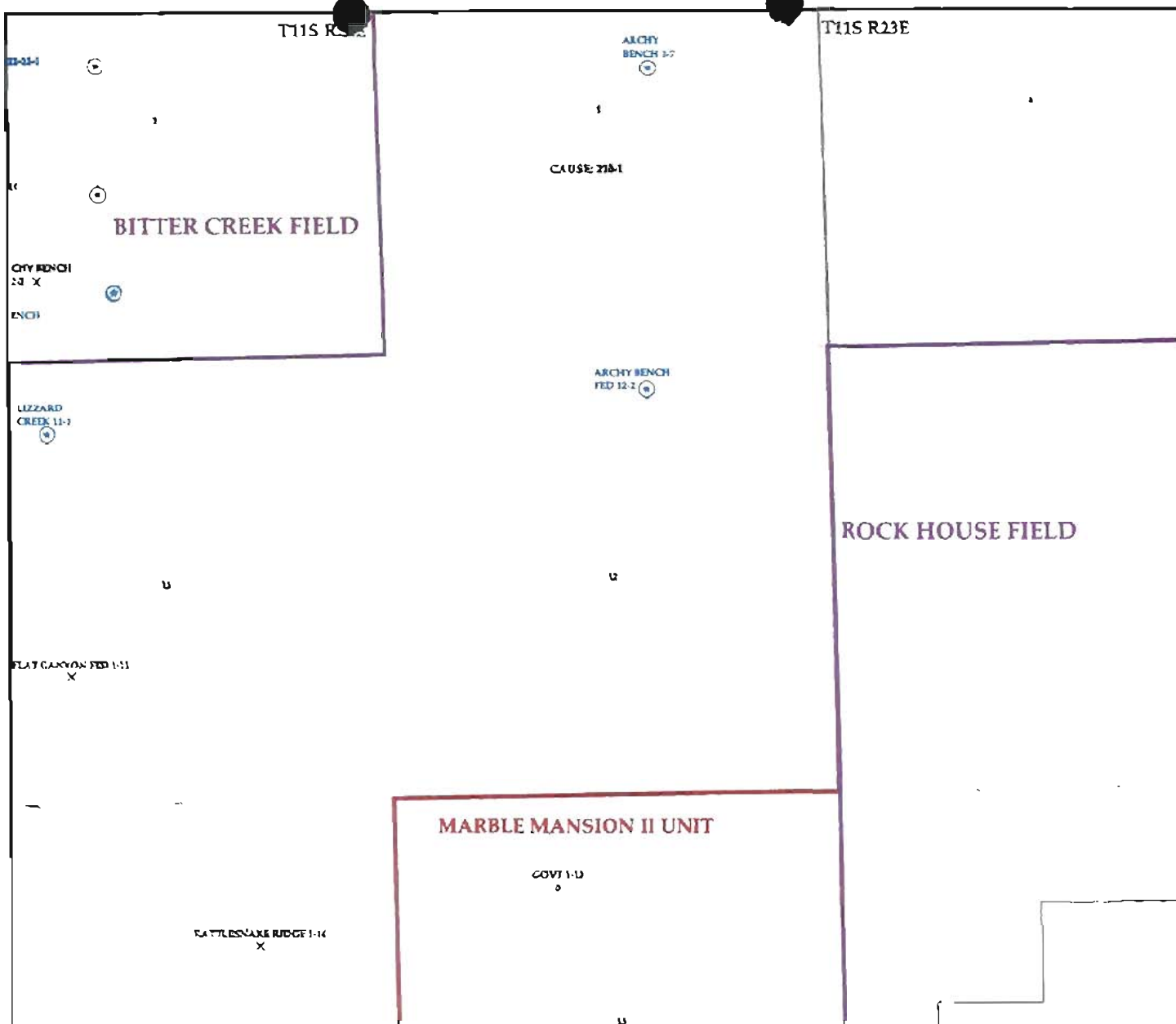
LOCATION AND SITING:

       R649-2-3.  
Unit \_\_\_\_\_  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
       R649-3-3. Exception  
       Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
       R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

1- Federal Approval  
2- Spacing Strip



OPERATOR: MCELVAIN O&G PROP (N2100)

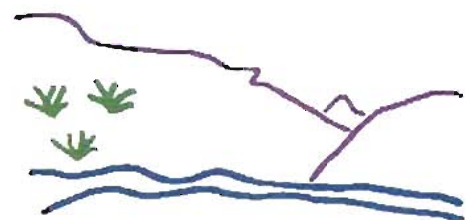
SEC: 12 T. 11S R. 22E

FIELD: UNDESIGNATED (002)

COUNTY: UTAH

SPACING: R649-3-2 / GENERAL SITING

Wells	Unitshp	Fieldshp
~ GAS INJECTION	EXPLORATORY	ABANDONED
> GAS STORAGE	GAS STORAGE	ACTIVE
X LOCATION ABANDONED	NF PP OIL	COMBINED
⊙ NEW LOCATION	NF SECONDARY	INACTIVE
⊙ PLUGGED & ABANDONED	PENDING	PROPOSED
* PRODUCING GAS	P1 OIL	STORAGE
● PRODUCING OIL	PP GAS	TERMINATED
○ SHUT-IN GAS	PP GEOTHERML	
- SHUT-IN OIL	PP OIL	
X TEMP. ABANDONED	SECONDARY	
= TEST WELL	TERMINATED	
△ WATER INJECTION		
* WATER SUPPLY		
○ WATER DISPOSAL		



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 14-JULY-2003



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 14, 2005

McElvain Oil & Gas Properties, Inc.  
1050 17th Street, Suite 1800  
Denver, CO 80265

Re: Archy Bench Federal 12-2 Well, 474' FNL, 2168' FEL, NW NE, Sec. 12,  
T. 11 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36897.

Sincerely,

Gil Hunt  
Acting Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** McElvain Oil & Gas Properties, Inc.  
**Well Name & Number** Archy Bench Federal 12-2  
**API Number:** 43-047-36897  
**Lease:** UTU-73903

**Location:** NW NE                      **Sec.** 12                      **T.** 11 South                      **R.** 22 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU - 73903
2. NAME OF OPERATOR: McElvain Oil & Gas Properties, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1050-17th St., Ste. 1800 CITY Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2168' FEL & 474' FNL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 12 11S 22E		8. WELL NAME and NUMBER: Archy Bench Federal # 12-2
PHONE NUMBER: (303) 893-0933		9. API NUMBER: 4304736897
		10. FIELD AND POOL, OR WILDCAT: Undesignated
		COUNTY: Uintah
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 4/1/2007	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Request for Drilling Permit Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

McElvain Oil and Gas Properties, Inc. is requesting an extension to our July 14, 2005 State of Utah drilling permit due to delays in our receipt of a federal drilling permit. The Vernal Office of the BLM is continuing its review of our proposed well due to its proximity to a "citizens proposed wilderness area". Until McElvain Oil and Gas receives a federal drilling permit we will be unable to proceed with our plans to drill this well.

PLEASE SEE THE ATTACHED STATE OF UTAH FORM "APPLICATION FOR PERMIT TO DRILL - REQUEST FOR PERMIT EXTENSION VALIDATION"

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 07-11-06  
By: [Signature]

NAME (PLEASE PRINT) E. Reed Fischer	TITLE Operations Engineer
SIGNATURE [Signature]	DATE 6/28/2006

(This space for State use only)

COPI SENT TO OPERATOR  
Date: 9/27/06  
Initials: RM

RECEIVED  
JUN 30 2006

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-36897  
**Well Name:** Archy Bench Federal # 12-2  
**Location:** NWNE Sec. 12, T11S-R22E Uintah County, Utah  
**Company Permit Issued to:** McElvain Oil & Gas Properties, Inc.  
**Date Original Permit Issued:** 7/14/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

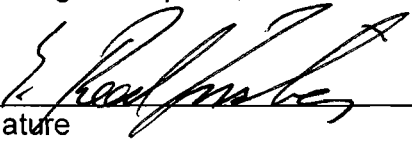
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

6/28/2006

Date

Title: Operations Engineer

Representing: McElvain Oil & Gas Properties, Inc.

**RECEIVED**

**JUN 30 2006**

DIV. OF OIL, GAS & MINING

# RECEIVED

JUL 13 2005

BLM VERNAL, UTAH

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

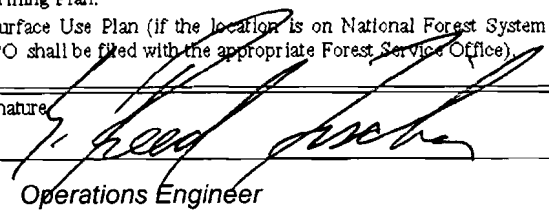
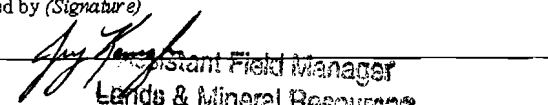
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU - 73903</b>	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator <b>McElvain Oil &amp; Gas Properties, Inc.</b>		7. If Unit or CA Agreement, Name and No.	
3a. Address <b>1050 - 17th Street, Ste. 1800 Denver, CO. 80265</b>		8. Lease Name and Well No. <b>Archy Bench Federal #12-2</b>	
3b. Phone No. (include area code) <b>303.893.0933</b>		9. API Well No. <b>43-047-36897</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>2,168' FEL &amp; 474' FNL (NWNE) Sec. 12, T11S-R22E S.L.B. &amp; M.</b> At proposed prod. zone <b>same (vertical well)</b>		10. Field and Pool, or Exploratory <b>Rock House</b>	
11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec. 12, T11S-R22E, S.L.B.&amp;M.</b>		12. County or Parish <b>Uintah</b>	
13. State <b>Utah</b>		14. Distance in miles and direction from nearest town or post office** <b>60 driving miles and 40 direct miles South-Southeast of Vernal, Utah</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>2,168' west of lease line</b>	16. No. of Acres in lease <b>1,341.28</b>	17. Spacing Unit dedicated to this well <b>40.0 acres</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>3,778 feet</b>	19. Proposed Depth <b>8,650 feet</b>	20. BLM/BIA Bond No. on file <b>LPM 4138223 (nation-wide bond)</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5,839' GL</b>	22. Approximate date work will start* <b>October 2005</b>	23. Estimated duration <b>30 Days Construction &amp; Drilling</b>	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) <b>E. Reed Fischer</b>	Date <b>7/11/05</b>
Title <b>Operations Engineer</b>	Accepted by the <b>Utah Division of Oil, Gas and Mining</b>	
Approved by (Signature) 	Name (Printed/Typed) <b>Terry Kucicka</b>	Date <b>7-14-2007</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>	FOR RECORD ONLY <b>VERNAL FIELD OFFICE</b>	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

JAN 30 2007

DIV. OF OIL, GAS & MINING



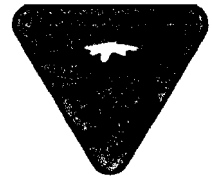


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: McElvain Oi & Gas Properties, Inc. Location: NWNE, Sec. 12, T11S, R22E  
Well No: Archy Bench Federal 12-2 Lease No: UTU-73903  
API No: 43-047-36897 Agreement: N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Melissa Hawk	435-781-4476	435-828-7381
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Scott Ackerman	435-781-4437	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	
After Hours Contact Number: 435-781-4513		Fax: 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- If paleontologic materials are uncovered during construction, the operator shall immediately stop work that might further disturb such materials and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation will be necessary for the discovered paleontologic material.
  - The interim seed mix for this location shall be:

Crested wheat grass	<i>Agropyron cristatum</i>	4 lbs. /acre
Needle and Thread grass	<i>Stipa comata</i>	4 lbs. /acre
Indian Rice grass	<i>Stipa hymenoides</i>	4 lbs. /acre

    - All pounds are in pure live seed.
    - Reseeding may be required if first seeding is not successful.
  - Final Abandonment seed mix for this location shall be:

Black sagebrush	<i>Artemesia nova</i>	1 lbs. /acre
Four-wing saltbush	<i>Atriplex canescens</i>	3 lbs. /acre
Shadscale	<i>Atriplex confertifolia</i>	4 lbs. /acre
Galleta grass	<i>Hilaria jamesii</i>	4 lbs. /acre
  - The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
  - Once the location is plugged and abandoned, it shall be recontoured to natural contours, topsoil respread where appropriate, and the entire location seeded with the recommended seed mix. Seeding shall take place by broadcasting the seed and walking it into the soil with a dozer immediately after the dirt work is completed.
  - Prior to abandonment of a buried pipeline, the operator will obtain authorization from the appropriate regulatory agency. BLM will determine whether the pipeline and all above ground pipeline facilities shall be removed and unsalvageable materials disposed of at approved sites or abandoned in place. Reshaping and revegetation of disturbed land areas will be completed where necessary.
  - The well will be spudded within five years of the existing or supplemented NEPA documentation.
  - The requested color for all permanent structures is Olive Black.
  - The pipeline shall be buried within the identified construction width of an access corridor that contains the access road and pipelines. The operator may request in writing an exception to this COA. Exceptions to this COA may include but are not limited to: laterally extensive, hard indurated bedrock, such as sandstone, which is at or within 2 feet of the surface; and, soil types with a poor history for successful rehabilitation. The exception request will be reviewed by the authorized officer (AO) and a determination made.
-

- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.
- The best method to avoid entrainment is to pump from an off-channel location-one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  - do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (see above); and
  - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with ¼" mesh material.
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

**Northeastern Region**  
152 East 100 North, Vernal, UT 84078  
Phone: (435) 781-9453

#### **General Surface COA**

**Operator shall notify any active Gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.**

## **DOWNHOLE CONDITIONS OF APPROVAL**

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- Oil Shale resources will need isolation and/or protection.
- Gilsomite may be encountered in this area.

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).
- All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

- The lessee/operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent

disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
UTU-73903

6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
McElvain Oil & Gas Properties, Inc.

3a. Address  
1050 17th Street, Suite 1800, Denver, CO 80265

3b. Phone No. (include area code)  
(303) 893-0933

7. If Unit of CA/Agreement, Name and/or No.  
N/A

8. Well Name and No.  
Archy Bench Federal #12-2

9. API Well No.  
43-047-36897

10. Field and Pool or Exploratory Area  
Rock House

4. Location of Well (Footage, Sec., T. R. M., or Survey Description)  
474' FNL & 2168' FEL (NWNE) Sec. 12-T11S-R22E S L B & M

11. Country or Parish, State  
Utah County, Utah

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Surface Reclamation Plan
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Interim Reclamation: Upon well completion, the reserve pit will be back filled and brought back to a contour that will not infringe on the well head. The South East portion of the drill pad is required for production facilities and truck turnarounds. Approximately a quarter of the North East side of the drill pad will be brought to contour and reseeded.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RECEIVED

MAR 12 2007

DIV. OF OIL, GAS & MINING

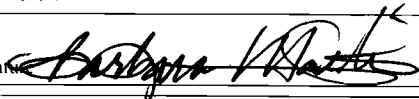
14. I hereby certify that the foregoing is true and correct.

Name (Printed Typed)

Barbara Martin

Title Engineer

Signature



Date 03/08/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
UTU-73903

6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

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3b. Phone No. (include area code)  
(303) 893-0933

7. If Unit of CA/Agreement, Name and/or No.  
N/A

8. Well Name and No.  
Archy Bench Federal #12-2

9. API Well No.  
43-047-36897

10. Field and Pool or Exploratory Area  
Rock House

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
474' FNL & 2168' FEL (NWNE) Sec. 12-T11S-R22E SLB&M

11. Country or Parish, State  
Utah County, Utah

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Request Exception
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	to COA to lay pipeline
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	on surface.

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

McElvain Oil & Gas requests an exception to lay pipeline on surface. Currently the Conditions of Approval require the pipeline to be buried for the Archy Bench Federal #12-2 (API# 43-047-36897). We are requesting the exception for the pipeline to be laid and utilized above ground, except for the underground county road crossing. The following are reasons for above ground installation:

A) This area would require blasting to bury the pipeline.

B) Buried pipeline are subject to corrosion over time which in return requires the pipeline to be dug up for repair and/or maintenance.

Both of these reasons would create additional surface disturbance to bury the pipeline. In addition, when the location is reclaimed the buried pipeline will be required to be dug up and removed. If pipeline is laid above ground it would allow for maintenance and removal with minimal surface disturbance.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

**RECEIVED**

**JUN 19 2007**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
Barbara Martin

Title Engineer

Signature

Date 06/15/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1 TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5 LEASE DESIGNATION AND SERIAL NUMBER: UTU 73903
2 NAME OF OPERATOR McElvain Oil & Gas Properties, Inc.		6 IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3 ADDRESS OF OPERATOR 1050 17th St., Suite 1800 CITY Denver STATE CO ZIP 80265		7 UNIT or CA AGREEMENT NAME: N/A
PHONE NUMBER (303) 893-0933		8 WELL NAME and NUMBER: Archy Bench Federal #12-2
4 LOCATION OF WELL FOOTAGES AT SURFACE 474' FNL & 2168' FEL COUNTY: Uintah		9 API NUMBER 4304736897
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 12 11S 22E STATE: UTAH		10 FIELD AND POOL, OR WILDCAT Rock House

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 10/1/2007	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER Request for Drilling Permit Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

McElvain Oil & Gas Properties, Inc. is requesting an extension to our July 14, 2005 State of Utah drilling permit. We anticipate drilling the Archy Bench # 12-2 with in the next six months, but would like to apply for the maximum extension time allowed.

PLEASE SEE THE ATTACHED STATE OF UTAH FORM "APPLICATION FOR PERMIT TO DRILL - REQUEST FOR PERMIT EXTENSION VALIDATION"

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 07-11-07  
By: [Signature]

NAME (PLEASE PRINT) Barbara Martin	TITLE Engineer
SIGNATURE [Signature]	DATE 7/2/2007

(This space for State use only)

7-12-07  
Rm

RECEIVED  
JUL 05 2007  
DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-36897  
**Well Name:** Archy Bench Federal #12-2  
**Location:** NWNE Sec. 12 T11S-R22E, Uintah County, Utah  
**Company Permit Issued to:** McElvain Oil & Gas Properties, Inc.  
**Date Original Permit Issued:** 7/14/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

7/2/2007

Date

Title: Engineer

Representing: McElvain Oil & Gas Properties, Inc.

RECEIVED

JUL 05 2007

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
UTU-73903

6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
McElvain Oil & Gas Properties, Inc.

3a. Address  
1050 17th Street, Suite 1800, Denver, CO 80265

3b. Phone No. (include area code)  
(303) 893-0933

7. If Unit of CA/Agreement, Name and/or No.  
N/A

8. Well Name and No.  
Archy Bench Fed #12-2

9. API Well No.  
43-047-36897

10. Field and Pool or Exploratory Area  
Rock House

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
474' FNL & 2168' FEL (NWNE) Sec. 12, T11S-R22E SLM & B

11. Country or Parish, State  
Utah County, Utah

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>APD Change of Plans</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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McElvain Oil & Gas Properties, Inc. would like to make a change of plans on the APD for the Archy Bench Federal # 12-2 (API# 43-047-36897) located in the NWNE of Sec. 12, T11S-R22E of Utah County, Utah. The APD was approved to set surface casing to 500'. We would like to change our plans on the APD with a new surface casing depth of 1,800' with the following changes:

**Hole & Casing Configuration**

Hole Size	Hole Interval	Casing Size	Setting Depth	Casing New/Used
12 1/4"	0 - 1800'	9 5/8"	1750' - 1800'	New

**Surface Casing:**

Size	Wt./Ft	Grade	Thread	Collapse	Burst	Tensile
9 5/8	32.3	H-40	ST&C	1,400 psi	2,270 psi	254,000#

**Cement:**

Lead (Surface- 1300') 145 sacks 3.82 cf/sk 11.0 lbs/gal

(Hi Fill)

Tail (1300'-1800') 185 sacks 1.15 cf/sk 15.8 lbs/gal

Premium

2% CaCl + 0.25 #/sk Flocele

Above surface casing cement volume based upon 35% excess for cement to surface

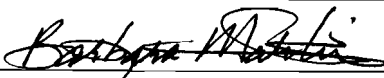
14 I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Barbara Martin

Title Engineer

Signature



Date 10/17/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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(Instructions on page 2)

**RECEIVED**

**OCT 19 2007**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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OMB No. 1004-0137  
Expires: March 31, 2007

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3b. Phone No. (include area code)  
(303) 893-0933

4. Location of Well (Footage, Sec., T. R. M., or Survey Description)  
474' FNL & 2188' FEL (NWNE) Sec. 12, T11S-R22E SLM & B

7. If Unit of CA/Agreement, Name and/or No.  
N/A

8. Well Name and No.  
Archy Bench Fed #12-2

9. API Well No.  
43-047-39430 36897

10. Field and Pool or Exploratory Area  
Rock House

11. Country or Parish, State  
Utah County, Utah

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

McElvain Oil & Gas Properties, Inc. drilled this well to 7,647' on 11/9/07 with a 7,875" bit out from under 9-5/8", 36#/ft surface casing set at 1,830'. The well bottomed in the Mesaverde formation with 9.9 #/gal mud after drilling through the Uteland Butte formation top at 3713', the Wasatch formation top at 3805', and the Mesaverde formation top at 5914'. After logging the well the decision was made to Plug & Abandon with 15.8 ppg, 1.15 Yield 'G' cement as follows:

Plug # 1 - 100 sack plug from 7,000' to 6,800'

Plug # 2 - 100 sack plug from 5,900' to 5,700'. Covering the Mesaverde top. This plug to be tagged after WOC.

Plug # 3 - 220 sack plug from 3,900' to 3,500'. Covering the Wasatch and base of potentially "Useable Water". This plug to be tagged after WOC.

Plug # 4 - 115 sack plug from 1,950' to 1,700'. Covering the base of the surface casing shoe.

Plug # 5 - 40 sack plug from 100' to surface.

The sack volume was determined from the Schlumberger Cement Volume (Caliper) log + 20% excess for the open-hole volumes.

Verbal approval to proceed with P&A operations was received from Mr. Matt Baker with the Vernal District BLM office on 11/10/07. Abandonment operations are anticipated to require 24 to 36 hours and were commenced soon after receipt of this verbal approval.

Following abandonment operations and move off of the drilling rig, the surface casing will be cut-off 3' below re-contoured ground level elevation and a steel dry-hole plate with Operator name, lease number, well name and legal description will be welded over the stub and a weep hole included before the location is brought to original grade, reseeded and reclaimed.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

E. Reed Fischer

Title Senior Operations Engineer

Signature

Date 11/10/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Accepted by the  
Title Division of  
Office

Federal Approval of This  
Action Is Necessary  
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

COPY SENT TO OPERATOR

Date:

Initials:

NOV 13 2007

DIV. OF OIL, GAS & MINING

Archy Bench #12 – 2  
474' FNL & 2168' FEL (NWNE) Section 12, T11S-R22E  
Uintah County, Utah  
API # 43-047-36897

1. TIH to TD of 7,647 & circulate hole
2. POOH to DCs
3. Lay down BHA (652')
4. TIH w/open ended drill pipe to 6,995
5. Circulate hole
6. Mix and pump **Plug # 1** of 100 sx neat 'G' cement (15.8 ppg and 1.15 Yield) **from 7,000 to 6,800'** (90 cf hole volume + 20% excess)
7. LD drill pipe to 5,900'
8. Circulate hole
9. Mix and pump **Plug # 2** of 100 sx neat 'G' cement w/2-3% CaCl (15.8 ppg & 1.15 Yield) **from 5,900 to 5,700'** (95 cf hole volume + 20% excess)
10. LD 240' of drill pipe, Stand back 3 stands (9 jts)
11. Circulate hole and WOC  $\pm$  3 hours depending on surface sample
12. TIH to **TAG Plug # 2**
13. LD drill pipe to 3,900'
14. Circulate hole
15. Mix and pump **Plug # 3** of 220 sx neat 'G' cement w/2-3% CaCl (15.8 ppg & 1.15 Yield **from 3,900' to 3,500'** (210 cf hole volume + 20% excess)
16. LD 450' of drill pipe, Stand back 3 stands (9 jts)
17. Circulate hole and WOC  $\pm$  3 hours depending on surface sample
18. TIH to **TAG Plug # 3**
19. LD drill pipe to 1,950'
20. Circulate hole
21. Mix and pump **Plug # 4** of 115 sx neat 'G' cement w/2-3% CaCl (15.8 ppg & 1.15 Yield **from 1,950 to 1,700'** (60 cf hole volume + 20% excess + 130' casing x 0.4341 cf/ft)
22. LD drill pipe to 1,500'
23. Circulate hole
24. LD all but 3 joints drill pipe
25. Mix and pump **Plug # 5** of 40 sx neat 'G' cement (15.8 ppg & 1.15 Yield) **from 100' to surface.**
26. ND & wash out BOPs
27. Wash cement out surface casing 5' below ground (= 3' below re-contoured ground level)
28. Install dry-hole flat plate w/weep hole (> 0.25" thick) and large enough to include
  - a. McElvain Oil & Gas Properties, Inc
  - b. Lse # UTU-73903
  - c. Archy Bench # 12 – 2
  - d. NWNE Section 12, T11S-R22E

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

1a. Type of Well ☐ Oil Well ☐ Gas Well ☒ Dry ☐ Other  
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other: Drilled & Abandoned

2. Name of Operator  
McElvain Oil & Gas Properties, Inc.3. Address 1050 - 17th Street, Suite 1800 Denver, Colorado 802653a. Phone No. (include area code)  
(303) 893-0933 xtn 3304. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
474' FNL & 2168' FEL (NWNE) Sec. 12, T11S-R22E SLM&B

At surface

same

At top prod. interval reported below

At total depth same

14. Date Spudded  
10/29/200715. Date T.D. Reached  
11/09/200716. Date Completed  
☒ D & A ☐ Ready to Prod.18. Total Depth: MD 7,647' KB  
TVD 7,647' KB19. Plug Back T.D.: MD na  
TVD20. Depth Bridge Plug Set: MD na  
TVD22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ Yes (Submit copy)21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
Density/Neutron/AIT/GR/SP

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14" Conduct		Surface	40'	na	2.5 yds Premix		Surface	none
12.25"	9.625"/J55	36 #/ft	Surface	1,830' KB	na	150 sx lite	67 bbls-LEAD		none
						200 Premium	41 bbls-TAIL		
						150 sx Premium	31 bbls-Topoff	Surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
na								

25. Producing Intervals

Formation	Top	Bottom	Perforation Record	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Amount and Type of Material

Depth Interval	

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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JAN 10 2008

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28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)  
na - Well Drilled & Abandoned

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Uteland Butte	3713' KB
				Wasatch	3805' KB
				Mesaverde	5914' KB
				Neslen	7150' KB

32. Additional remarks (include plugging procedure):

40' of 14" Conductor casing was set & cemented in a 20" hole w/2.5 yards of redi-mix on 10/25/07. On 10/29/07 a 12.25" hole was spud and drilled to 1,860' KB before running & setting 1,830' of new 9.625", 36#, J55 casing w/a Pro-Petro rig utilized to pre-set surface casing. Surface casing was cemented w/150 sx of lite cement LEAD and 200 sacks of Premium cement TAIL before being topped off w/an additional 150 sacks of of Premium cement via 1". The well was Petro rig was released and Ensign Rig # 79 was moved in on 11/1/07. A 7.875" hole was drilled to 7647' TD w/10.1 ppg mud on 11/9/07. The well was logged & then P&A'd. All downhole P&A operations witnessed by the BLM's Mr. John Bolen & Jake Birchell and were ended on 11/11/07 as follows:  
 PLUG #1 - 100 sx 15.8 ppg neat 'G', 1.15 Yield from 7,000' to 6,800'  
 PLUG #2 - 100 sx 15.9 ppg neat 'G', 1.15 Yield from 5,900' to 5,630'. This Plug #2 was Tagged at 5,630' after WOC and covered the Mesaverde zone.  
 PLUG #3 - 220 sx 15.9 ppg neat 'G', 1.15 Yield from 3,888' to 3,360'. This Plug #3 was Tagged at 3,360' after WOC and covered potentially useable water.  
 PLUG #4 - 115 sx 15.9 ppg neat 'G', 1.15 Yield from 1,959' to 1,700'. This Plug #4 covered the base of the surface casing shoe.  
 PLUG #5 - 50 sx 15.9 ppg neat 'G', 1.15 Yield from 117' to Ground Level. This Plug #5 was the surface plug. 10.1 ppg mud was placed between all plugs.  
 Surface casing was cut off and a dry-hole plate welded over the surface casing stub on 11/19/07 and was witnessed by the BLM's Mr. Jaime Sparger.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)  
☐ Sundry Notice for plugging and cement verification  
☐ Geologic Report  
☐ Core Analysis  
☐ DST Report  
☐ Directional Survey  
☒ Other: BJ Services P&A Cement Job Report

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) E. Reed Fischer Title Senior Operations Engineer  
 Signature [Signature] Date 01/07/2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



# CEMENT JOB REPORT



<b>CUSTOMER</b> McElvain T H Oil & Gas			<b>DATE</b> 10-NOV-07		<b>F.R. #</b> 1001260611		<b>SERV. SUPV.</b> LANCE N WEBB			
<b>LEASE &amp; WELL NAME</b> ARCHY BENCH FEDERAL #12-2 - API 43047368970			<b>LOCATION</b> 12-11S-22E			<b>COUNTY-PARISH-BLOCK</b> Uintah Utah				
<b>DISTRICT</b> Vernal			<b>DRILLING CONTRACTOR RIG #</b>			<b>TYPE OF JOB</b> Plug & Abandon				

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
MATERIALS FURNISHED BY BJ								
Fresh Water			8.34				10	
G-Neat		100	15.8	1.15	5.00		20.45	11.90
Fresh Water			8.34				2.4	
Drilling Mud			10.1				93	
Fresh Water			8.34				10	
G-Neat		100	15.8	1.15	5		20.5	11.92
FRESH WATER			8.34				2.4	
DRILLING MUD			10.1				77.6	
FRESH WATER			8.34				10	
G NEAT		220	15.8	1.15	5		45.05	26.19
FRESH WATER			8.34				2.4	
DRILLING MUD			10.1				44	
FRESH WATER			8.34				10	
G NEAT		115	15.8	1.15	5		23.5	13.66
FRESH WATER			8.34				2.5	
DRILLING MUD			10.1				20.7	
FRESH WATER			8.34				10	
G NEAT		50	15.8	1.15	5		10	5.81
<b>Available Mix Water</b> 800 <b>Bbl.</b> <b>Available Displ. Fluid</b> <b>Bbl.</b> <b>TOTAL</b>							414.50	69.47

HOLE			TBG-CSG-D.P.				COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE
9	0	6994	9.625	36	CSG	1830	J-55			0

LAST CASING			PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	WGT.
				NO PACKER	0	0	0	4.5	XO	10.1

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
95.5	BBLS	Drilling Mud	10.1	0	0	0	0	0	9830	7864	RIG
		DRILLING MUD	10.1								

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE

PRESSURE/RATE DETAIL					EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>
	PIPE	ANNULUS				
						TEST LINES 3000 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
12:30	0	0	0	0	0	ARRIVE AT YARD
17:30	0	0	0	0	0	LEAVE YARD
19:30	0	0	0	0	0	ARRIVE AT LOCATION
19:35	0	0	0	0	0	PREFORM A JSA
19:50	0	0	0	0	0	SPOT TRUCKS
20:00	0	0	0	0	0	BEGIN RIG UP
22:40	0	0	0	0	0	SAFETY MEETING
22:50	0	0	0	0	0	RIG UP TO CMT
23:06	1000	0	3	0	0	

# CEMENT JOB REPORT



PRESSURE/RATE DETAIL						EXPLANATION			
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>			
	PIPE	ANNULUS				TEST LINES 3000 PSI			
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>			
						POP OFF			
23:09	3000	0	0	0	0	PSI TEST			
23:12	400	0	5	10	H2O	ST WTR AHEAD			
23:20	0	0	0	0	0	BATCH UP CMT TO 15.8 PPG/WEIGH CMT			
23:25	425	0	3	20	CMT	ST CMT @ 15.8 PPG			
23:35	50	0	3	2.4	H2O	ST WTR BEHIND			
23:37	50	0	4	0	MUD	ST DISPLACEMENT W/ DRILLING MUD @ 10.1 PPG			
00:00	79	0	2	80	MUD	SLOW RATE			
00:05	0	0	0	93.1	0	SHUT DOWN			
00:15	0	0	0	0	0	RIG ST PULL PIPE			
02:00	0	0	0	0	0	SAFETY MEETING			
02:10	0	0	0	0	0	RIG TO CMT			
02:15	1000	0	0	0	0	POP OFF			
02:18	3000	0	0	0	0	PSI TEST			
02:22	350	0	5	10	H2O	ST WTR AHEAD			
02:24	0	0	0	0	0	SHUT DOWN BATCH UP/WIEGH CMT			
02:29	75	0	5	20.5	CMT	ST CMT @ 15.8 PPG			
02:34	75	0	2	2.4	H2O	ST WTR BEHIND			
02:35	81	0	5	0	MUD	ST DISPLACEMENT W/ 10.1 PPG DRILLING MUD			
02:50	120	0	2	65	MUD	SLOWED RATE			
02:54	46	0	0	0	0	SHUT DOWN			
08:45	0	0	0	0	0	TAG PLUG #2 LAY DOWN PIPE TAGGED AT 5630'			
12:00	0	0	0	0	0	SAFETY MEETING			
12:15	0	0	0	0	0	RIG TO CMT			
12:25	1000	0	0	0	0	POP OFF			
12:29	3000	0	0	0	0	PSI TEST			
12:31	275	0	3	10	H2O	O			
12:34	0	0	0	0	0	SHUT DOWN BATCH UP/WIEGH CMT			
12:39	285	0	5	45	CMT	ST CMT @ 15.8 PPG + 1% CACL			
12:52	62	0	2	2.4	H2O	ST WTR BEHIND			
12:53	48	0	5	0	MUD	ST DISPLACEMENT W/ DRILLING MUD @ 10.1 PPG			
13:01	56	0	2	34	MUD	SLOW RATE			
13:06	0	0	0	44	0	SHUT DOWN			
13:15	0	0	0	0	0	PULL PIPE			
15:25	0	0	0	0	0	TAGGED PLUG #3 @ 3360'			
19:15	0	0	0	0	0	SAFETY MEETING			
19:20	0	0	0	0	0	RIG TO CMT			
19:28	1000	0	0	0	0	POP OFF			
19:30	3000	0	0	0	0	PSI TEST			
19:32	200	0	4	10	H2O	ST WTR AHEAD			
19:35	0	0	0	0	0	SHUT DOWN BATCH UP/WIEGH CMT			
19:40	100	0	5	23.5	CMT	ST CMT @ 15.8 PPG + 1% CACL			
19:51	79	0	3	2.5	H2O	ST WTR BEHIND			
19:52	52	0	5	0	MUD	ST DISPLACEMENT W/ 10.1PPG DRILLING MUD			
19:54	79	0	2	10	MUD	SLOW RATE			
19:59	0	0	0	20.7	0	SHUT DOWN			
20:45	0	0	0	0	0	PULL PIPE			
22:55	0	0	0	0	0	SAFETY MEETING			
23:00	0	0	0	0	0	RIG TO CMT			

# CEMENT JOB REPORT



PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	3000 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
23:10	1000	0	0	0	0	POP OFF	
23:13	3000	0	0	0	0	PSI TEST	
23:15	15	0	3	5	H2O	ST WTR AHEAD	
23:16	0	0	0	0	0	SHUT DOWN BATCH UP/WIEGH CMT	
23:18	35	0	3	10.5	CMT	ST CMT @ 15.8 PPG	
23:24	0	0	0	0	0	SHUT DOWN	
						THANKS LANCE AND CREW	

BUMPED PLUG Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	PSI TO BUMP PLUG	TEST FLOAT EQUIP. Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED 0	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SERVICE SUPERVISOR SIGNATURE: 
--	------------------------	---	---------------------------------	------------------------------	----------------------------	---	-----------------------------------